

1663	HNGIU16	826717	1673	14 - 100	4270		AR061: 5, AR198: 5, AR241: 4, AR282: 4, AR192: 4, AR247: 4, AR275: 4, AR033: 4, AR313: 4, AR312: 4, AR273: 4, AR243: 4, AR202: 4, AR213: 4, AR185: 4, AR089: 4, AR309: 3, AR182: 3, AR053: 3, AR104: 3, AR251: 3, AR316: 3, AR299: 3, AR300: 3, AR039: 3, AR271: 3, AR294: 3, AR183: 3, AR277: 3, AR283: 3, AR265: 3, AR096: 2, AR205: 2, AR175: 2, AR253: 2, AR310: 2, AR249: 2, AR270: 2, AR238: 2, AR233: 2, AR295: 2, AR293: 2, AR231: 2, AR232: 2, AR237: 2, AR240: 2, AR234: 2, AR298: 2, AR267: 2, AR296: 2, AR177: 1, AR226: 1, AR286: 1, AR289: 1, AR266: 1 S0052: 2		
1664	HNGIX91	564574	1674	155 - 250	4271		H0550: 1, H0428: 1 and S0052: 1.		
1665	HNGJA68	824145	1675	23 - 115	4272		S0052: 1		
1666	HNGJB57	663998	1676	101 - 199	4273		S0052: 1		
1667	HNGJE86	826451	1677	229 - 339	4274		S0052: 1		
1668	HNGJH26	663997	1678	129 - 233	4275	Met-1 to Met-14.	S0052: 1		
1669	HNGJI61	604485	1679	116 - 208	4276	Met-23 to Val-30.	S0052: 1		
1670	HNGJL07	825345	1680	147 - 335	4277		S0052: 2, S0222: 1, L0455: 1, S0036: 1 and L0366: 1.		

1671	HNGJS66	608638	1681	49 - 162	4278	Gly-25 to Asn-37.	L0794: 7, L0768: 2, S0052: 2, H0040: 1, L0789: 1 and S0216: 1.		
1672	HNGJU60	825336	1682	251 - 418	4279		S0052: 1		
1673	HNGKB09	836060	1683	313 - 396	4280		AR060: 6, AR316: 5, AR089: 3		
1674	HNGKW35	899408	1684	86 - 481	4281	Phe-33 to Leu-38, Pro-45 to Gln-58, Ala-81 to Phe-86, Gly-88 to Gln-97.	H0673: 1 and S0428: 1.		
1675	HNGKY94	835021	1685	290 - 445	4282	Pro-29 to Tyr-36.	AR060: 9, AR316: 7, AR089: 5 S0428: 1		
1676	HNGLD28	836062	1686	403 - 453	4283		AR089: 32, AR316: 24, AR060: 17 S0428: 1		
1677	HNGOY36	834936	1687	299 - 463	4284		AR060: 3, AR316: 3, AR089: 1 S0428: 1		
1678	HNHAB38	609892	1688	69 - 173	4285		AR060: 7, AR316: 6, AR089: 4		
1679	HNHAC43	654859	1689	72 - 176	4286	Ser-28 to Asn-34.	L0745: 9, L0548: 1, S0002: 1, S0428: 1, S0432: 1 and L0746: 1.		
							S0053: 1 and S0028: 1.		
							L0769: 3, L0439: 3, H0676: 2, H0333: 2, L0794: 2, L0783: 2, S0053: 2, S0328: 2, L0748: 2, L0759: 2, H0265: 1, H0556: 1, S0430: 1, H0657: 1, H0341: 1, S0360: 1, S0132: 1, H0393: 1, L0717: 1, H0486: 1, S0010: 1, H0318: 1, H0052: 1, L0471: 1, S0051: 1, H0038: 1, H0040: 1, H0412: 1, H0494: 1, S0016: 1, H0130: 1, S0210: 1, S0422: 1, L0646: 1, L0644: 1, L0771: 1, L0774: 1, L0655: 1, L0527: 1, L0657: 1, L0789: 1, S0216: 1, L0438: 1, L0352: 1, S0330: 1, S0146: 1, S0032: 1, L0749: 1.		

1680	HNHAD34	612845	1690	54 - 137	4287			1, L0779: 1, L0777: 1, L0757: 1, S0242: 1, S0276: 1 and H0423: 1.		
1681	HNHAG83	604993	1691	157 - 282	4288		Ala-24 to Tyr-29.	AR089: 24, AR316: 18, AR060: 12 S0053: 1		
1682	HNHAH06	609900	1692	344 - 349	4289			S0053: 2, H0171: 1 and S0037: 1.		
1683	HNHAJ65	604996	1693	151 - 174	4290			H0313: 1 and S0053: 1.		
1684	HNHAL61	668254	1694	162 - 275	4291			H0313: 1 and S0053: 1.		
1685	HNHAP58	535713	1695	705 - 722	4292			S0053: 1		
								AR089: 25, AR316: 16, AR060: 8 H0556: 34, H0265: 17, S0422: 15, L0742: 7, L0777: 7, H0013: 6, H0156: 6, L0776: 6, H0547: 6, L0439: 6, L0471: 5, L0805: 5, H0144: 5, H0624: 4, H0141: 4, H0585: 4, H0657: 4, H0599: 4, H0560: 4, L0517: 4, H0519: 4, L0779: 4, S0134: 3, S0376: 3, H0619: 3, H0351: 3, S0278: 3, S0222: 3, H0486: 3, H0457: 3, L0163: 3, L0455: 3, H0040: 3, L0770: 3, L0772: 3, L0375: 3, L0747: 3, L0731: 3, L0599: 3, H0423: 3, H0170: 2, H0583: 2, S0007: 2, L0717: 2, H0586: 2, H0497: 2, S0010: 2, H0263: 2, H0050: 2, H0024: 2, H0356: 2, H0615: 2, H0634: 2, H0616: 2, S0426: 2, L0369: 2, L0809: 2, S0378: 2, L0748: 2, L0759: 2, H0595: 2, H0542: 2, H0171: 1, S0114: 1, S0218: 1, H0656: 1, S0116: 1, H0662: 1, H0305: 1, H0589: 1, H0459: 1, H0638: 1, S0358: 1, S0132: 1, H0369: 1, H0431: 1, H0250: 1	12p13	103950, 120580, 131440, 139130, 142680, 176260, 190450, 200990, 216950, 600228, 600414, 600618, 602096

1686	HNHAW34	603386	1696	214 - 252	4293				1, L0021: 1, H0002: 1, H0575: 1, H0274: 1, H0581: 1, S0049: 1, H0196: 1, H0052: 1, H0545: 1, H0041: 1, H0178: 1, H0123: 1, H0057: 1, H0373: 1, H0428: 1, H0039: 1, H0644: 1, T0067: 1, H0272: 1, H0623: 1, T0041: 1, H0494: 1, S0440: 1, S0144: 1, S0344: 1, H0529: 1, L0625: 1, L0535: 1, L0769: 1, L0638: 1, L3904: 1, L0373: 1, L0646: 1, L0642: 1, L0773: 1, L0521: 1, L0766: 1, L0650: 1, L0509: 1, L0655: 1, L0542: 1, L0782: 1, L0792: 1, L0665: 1, S0053: 1, H0698: 1, H0520: 1, H0435: 1, S0328: 1, S0330: 1, H0539: 1, S0380: 1, H0696: 1, H0436: 1, H0576: 1, L0609: 1, S3012: 1, S0390: 1, S0037: 1, S3014: 1, L0749: 1, L0755: 1, L0758: 1, H0445: 1, S0434: 1, S0436: 1, L0595: 1 and H0422: 1.	
1687	HNHAW35	825316	1697	144 - 236	4294				S0053: 1	
1688	HNHAY26	704789	1698	777 - 887	4295				S0053: 1	
									AR182: 4, AR269: 4, AR060: 3, AR184: 3, AR293: 3, AR183: 3, AR296: 3, AR282: 3, AR284: 3, AR089: 3, AR298: 3, AR285: 3, AR290: 3, AR241: 3, AR251: 2, AR316: 2, AR295: 2, AR274: 2, AR289: 2, AR291: 2, AR294: 2, AR313: 2, AR268: 2, AR286: 2, AR270: 2, AR292: 2, AR226: 2, AR259: 2, AR219: 2, AR266: 2,	



1689	HNHAY86	866180	1699	99 - 113	4296		AR258: 2, AR096: 2, AR267: 2, AR232: 2, AR218: 2, AR263: 2, AR227: 2, AR237: 2, AR175: 2, AR231: 2, AR238: 2, AR265: 2, AR229: 1, AR233: 1, AR299: 1, AR277: 1, AR033: 1 S0053: 1		
1690	HNHAZ20	839696	1700	243 - 356	4297		H0052: 1, S0053: 1 and S0216: 1, AR244: 7, AR204: 5, AR289: 5, AR282: 4, AR206: 4, AR055: 4, AR186: 4, AR273: 4, AR286: 4, AR266: 4, AR060: 4, AR294: 3, AR313: 3, AR183: 3, AR291: 3, AR265: 3, AR246: 3, AR061: 3, AR182: 3, AR298: 3, AR296: 3, AR205: 3, AR053: 3, AR243: 3, AR052: 3, AR312: 3, AR293: 3, AR277: 3, AR309: 3, AR269: 3, AR104: 3, AR185: 2, AR283: 2, AR198: 2, AR192: 2, AR299: 2, AR316: 2, AR247: 2, AR033: 2, AR238: 2, AR285: 2, AR213: 2, AR270: 2, AR292: 2, AR290: 2, AR268: 2, AR295: 2, AR259: 2, AR256: 2, AR300: 2, AR258: 2, AR089: 2, AR240: 2, AR253: 2, AR039: 2, AR267: 2,	1q22-q24	104770, 107300, 107670, 110700, 131210, 136132, 145001, 146790, 159440, 159440, 159440, 173610, 186780, 191030, 191315, 600923, 601412, 601518, 601652, 602491

1691	HNHBE21	606789	1701	395 - 529	4298	Val-12 to Lys-18.	AR234: 2, AR232: 2, AR096: 2, AR231: 1, AR284: 1, AR175: 1, AR310: 1, AR229: 1, AR227: 1 S0053: 1			
1692	HNHBE38	562730	1702	214 - 672	4299	His-4 to Thr-10, Ser-16 to Ser-25, Leu-107 to Ser-121, Pro-143 to Asn-152.	S0052: 1 and S0053: 1. AR089: 48, AR316: 35, AR060: 24 S0132: 9, S0046: 6, S0418: 5, H0617: 5, H0050: 4, L0602: 4, L0751: 4, H0295: 3, H0013: 3, L0763: 3, L0768: 3, L0659: 3, L0747: 3, L0596: 3, S0040: 2, H0294: 2, S0420: 2, S0376: 2, S0360: 2, S0045: 2, H0250: 2, H0266: 2, H0622: 2, H0551: 2, H0623: 2, H0494: 2, L0646: 2, L0363: 2, L0767: 2, L0649: 2, L0775: 2, L0518: 2, L0783: 2, S3014: 2, S0028: 2, L0588: 2, L0581: 2, L0595: 2, S0276: 2, H0556: 1, H0685: 1, H0341: 1, S0029: 1, H0484: 1, H0661: 1, S0354: 1, S0444: 1, S0408: 1, H0580: 1, H0619: 1, H0645: 1, H0370: 1, H0592: 1, H0497: 1, H0642: 1, S0280: 1, L0021: 1, H0599: 1, H0618: 1, T0048: 1, H0052: 1, T0110: 1, H0046: 1, H0081: 1, H0014: 1, H0051: 1, H0290: 1, S0250: 1, H0644: 1, H0606: 1, H0212: 1, H0135: 1, H0090: 1, H0040: 1, H0634: 1, H0264: 1, H0268: 1, H0412: 1, H0056: 1, S0386: 1, L0564: 1, S0440: 1, H0509: 1, S0210: 1, S0002: 1, L0637: 1, L0772: 1, L0372: 1, L0645: 1, L0764: 1, L0771: 1, L0662: 1, L0386: 1,			

1693	HNHBG18	604924	1703	657 - 665	4300			L0533: 1, L0378: 1, L0655: 1, L0807: 1, L0383: 1, L0809: 1, L0791: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0053: 1, H0144: 1, H0547: 1, H0593: 1, H0435: 1, H0658: 1, H0670: 1, H0672: 1, S0152: 1, S0332: 1, H0479: 1, L0743: 1, L0748: 1, L0754: 1, L0749: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, L0591: 1, L0593: 1, L0601: 1, S0011: 1, H0668: 1, H0665: 1, H0422: 1, S0424: 1 and H0506: 1.		
1694	HNHBI65	566816	1704	161 - 301	4301			S0053: 1 and S0216: 1.		
1695	HNHBM16	566866	1705	374 - 601	4302			S0053: 1		
1696	HNHCH78	694657	1706	293 - 361	4303		Ser-18 to Met-41, Gly-58 to Glu-69.	H0341: 1, S0001: 1 and S0053: 1.		
1697	HNHCP14	651348	1707	55 - 207	4304		Asp-6 to Gln-12.	S0428: 1 and S0053: 1.		
1698	HNHCQ44	606791	1708	183 - 275	4305			S0053: 1 and H0422: 1.		
1699	HNHCT22	664496	1709	226 - 264	4306			S0053: 1		
1700	HNHCT47	634691	1710	73 - 192	4307		Asn-25 to Thr-33.	AR060: 6, AR316: 4, AR089: 3, S0046: 1 and S0053: 1.		
1701	HNHCV48	737905	1711	115 - 231	4308			AR089: 20, AR316: 17, AR060: 14, S0053: 2 and S0046: 1.		
1702	HNHCZ54	824072	1712	32 - 127	4309			S0053: 1		
								L0439: 7, S0222: 6, H0013: 6, L0771: 4, L0805: 3, L0776: 3, S0053: 3, L0438: 3, L0755: 3, S0007: 2, H0156: 2, S6028: 2, H0555: 2, L0366: 2, H0394: 1, H0556: 1, S6024: 1, H0657: 1, L0005: 1, H0443: 1, S6016: 1, H0486: 1, H0244: 1, H0250: 1, H0253: 1, S0010: 1, H0563: 1, H0264: 1, H0272: 1, L0351: 1, L0370: 1, L0638: 1, L0794: 1.		

1703	HNHDC52	812424	1713	207 - 299	4310		1, L0775: 1, L0659: 1, S0328: 1, S0152: 1, H0576: 1, S0028: 1 and H0543: 1. AR060: 8, AR316: 7, AR089: 5 S0222: 1 and S0053: 1. S0053: 1		
1704	HNHDD95	835370	1714	140 - 184	4311				
1705	HNHDE58	566782	1715	272 - 586	4312	His-16 to Leu-21, Pro-32 to Val-37.	AR060: 5, AR316: 4, AR089: 2 H0494: 17, H0551: 13, S0418: 12, H0521: 11, S0358: 6, L0659: 6, L0526: 6, L0665: 6, S0442: 5, H0519: 5, S0328: 5, H0545: 4, H0553: 4, H0509: 4, L0794: 4, L0766: 4, L0666: 4, L0663: 4, L0603: 4, H0543: 4, H0265: 3, S0356: 3, H0617: 3, H0488: 3, L0761: 3, L0667: 3, L0662: 3, L0809: 3, S0126: 3, S0406: 3, L0759: 3, H0294: 2, T0049: 2, H0657: 2, S0354: 2, S0376: 2, S0444: 2, S0360: 2, S0408: 2, H0587: 2, H0486: 2, H0375: 2, H0687: 2, H0181: 2, H0412: 2, T0042: 2, H0561: 2, H0529: 2, L0638: 2, L0771: 2, L0657: 2, L0664: 2, S0053: 2, L0438: 2, H0520: 2, H0547: 2, H0522: 2, H0555: 2, L0740: 2, L0751: 2, L0755: 2, L0731: 2, L0757: 2, S0434: 2, L0596: 2, L0581: 2, L0599: 2, H0624: 1, H0556: 1, H0685: 1, H0713: 1, S6024: 1, H0650: 1, H0484: 1, H0661: 1, H0663: 1, S0348: 1, S0420: 1, S0410: 1, H0637: 1, H0722: 1, L0717: 1, H0437: 1, H0370: 1, H0586: 1, H0559: 1, H0250: 1, H0427: 1, H0156: 1, H0599: 1, T0048: 1, H0581: 1.		

1706	HNHDI17	738043	1716	1175 - 1201	4313			1, H0052: 1, H0251: 1, H0546: 1, H0046: 1, N0006: 1, L0471: 1, H0012: 1, H0620: 1, H0024: 1, H0015: 1, L0163: 1, H0083: 1, H0594: 1, H0060: 1, H0266: 1, H0179: 1, H0688: 1, T0006: 1, L0055: 1, H0124: 1, H0708: 1, H0135: 1, H0087: 1, H0413: 1, H0560: 1, S0440: 1, H0633: 1, S0208: 1, H0695: 1, L0640: 1, L0769: 1, L5575: 1, L0800: 1, L0374: 1, L0773: 1, L0768: 1, L0774: 1, L0523: 1, L0806: 1, L0653: 1, L0655: 1, L0661: 1, L0628: 1, L0518: 1, L0383: 1, L0382: 1, L0519: 1, L0368: 1, L0788: 1, H0693: 1, H0689: 1, H0690: 1, H0683: 1, H0684: 1, H0435: 1, H0659: 1, H0658: 1, H0672: 1, S0330: 1, H0539: 1, H0696: 1, S0432: 1, S0027: 1, L0750: 1, L0752: 1, L0758: 1, S0436: 1, L0591: 1, L0593: 1, H0668: 1, S0026: 1, H0653: 1, H0542: 1, H0423: 1, S0424: 1 and L0600: 1.		
1707	HNHDL37	610113	1717	94 - 186	4314			AR089: 15, AR316: 13, AR060: 10 S0053: 1		
1708	HNHDM21	610114	1718	19 - 198	4315			S0053: 1		
1709	HNHDR57	638121	1719	117 - 215	4316		Glu-33 to Tyr-38.	S0053: 1		
1710	HNHDR96	664497	1720	291 - 395	4317		Leu-24 to Gly-32.	S0053: 1		
1711	HNHDIU62	610094	1721	311 - 358	4318			S0053: 1		
1712	HNHDIW34	607867	1722	332 - 433	4319			S0053: 1		
								AR313: 16, AR161: 13, AR162: 12, AR163: 12, AR173: 10, AR165: 10, AR089: 10, AR300: 10, AR164: 9, AR166: 9,		

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1713	HNHDX28	608145	1723	170 - 322	4320	Arg-29 to Ser-35, Pro-39 to Gly-45.	AR290: 3, AR255: 3, AR203: 3, AR104: 3, AR227: 3, AR200: 3, AR170: 3, AR177: 3, AR217: 2, AR311: 2, AR224: 2, AR190: 2, AR250: 2, AR232: 2, AR055: 2, AR263: 2, AR061: 2, AR188: 2, AR246: 2, AR283: 2, AR172: 2, AR205: 1, AR171: 1, AR210: 1 S0053: 1		
1714	HNHDZ06	569774	1724	282 - 350	4321		S0053: 1		
1715	HNHDZ42	608299	1725	282 - 287	4322		S0053: 1		
1716	HNHEF37	825295	1726	180 - 230	4323		S0053: 1		
1717	HNHEF49	668256	1727	70 - 132	4324		S0053: 1		
1718	HNHEF70	610115	1728	7 - 111	4325		S0053: 1 and L0745: 1.		
1719	HNHEG30	638122	1729	219 - 371	4326	Pro-34 to Arg-43.	S0053: 1		
1720	HNHEH38	638123	1730	267 - 371	4327	Met-1 to Pro-10.	S0053: 1		
1721	HNHEL22	607421	1731	88 - 207	4328		S0053: 1		
1722	HNHEN70	854712	1732	67 - 612	4329	Gln-93 to Cys-99.	AR176: 6, AR162: 5, AR161: 5, AR163: 5, AR217: 4, AR202: 4, AR235: 4, AR178: 4, AR228: 4, AR055: 4, AR310: 3, AR261: 3, AR236: 3, AR186: 3, AR244: 3, AR273: 3, AR225: 3, AR188: 3, AR239: 3, AR264: 3, AR272: 3, AR246: 3, AR165: 3, AR262: 3, AR206: 3, AR061: 3, AR181: 3, AR311: 3, AR198: 3, AR053: 3, AR052: 3, AR200: 3,		

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1723	HNHEP21	609903	1733	175 - 270	4330			1, L0806: 1, L0805: 1, L0776: 1, L0807: 1, L0515: 1, L0809: 1, L0792: 1, L0793: 1, L0665: 1, S0053: 1, H0144: 1, H0520: 1, H0414: 1, H0658: 1, H0660: 1, H0672: 1, H0522: 1, S0406: 1, H0436: 1, S0037: 1, L0740: 1, L0745: 1, L0779: 1, L0780: 1, S0031: 1, S0436: 1, L0597: 1, L0588: 1, L0604: 1, L0601: 1, H0543: 1, H0423: 1 and H0422: 1.		
1724	HNHEP41	638124	1734	184 - 276	4331	Ser-20 to Ser-26.		S0053: 1		
1725	HNHES33	847418	1735	61 - 180	4332			S0053: 1		
1726	HNHET16	609904	1736	208 - 288	4333			H0623: 1 and S0053: 1.		
1727	HNHEY29	569772	1737	131 - 367	4334	Met-1 to Pro-6, Leu-56 to Gln-68.		H0637: 1 and S0053: 1.		
1728	HNHEZ76	618544	1738	52 - 72	4335			S0053: 1		
1729	HNHFF60	612778	1739	28 - 147	4336			S0053: 2		
1730	HNHFF81	732075	1740	307 - 405	4337			S0053: 1		
1731	HNHFI49	810955	1741	26 - 112	4338			S0001: 1, S0052: 1 and S0053: 1.		
1732	HNHFR42	638127	1742	22 - 123	4339	Arg-19 to Arg-29.		T0042: 1 and S0053: 1.		
1733	HNHFX25	580792	1743	244 - 360	4340	Pro-16 to Ala-21.		S0053: 1		
1734	HNHGD95	609905	1744	69 - 188	4341	Asn-25 to Thr-33.		AR089: 28, AR316: 20, AR060: 13		
1735	HNHGR82	617117	1745	287 - 475	4342			H0402: 1, S0053: 1 and S0028: 1.		
1736	HNHGS62	609907	1746	195 - 296	4343	Gln-17 to Asn-28.		S0053: 2 and S0046: 1.		
1737	HNHGY77	638128	1747	298 - 387	4344	Met-1 to Ser-6.		AR060: 8, AR316: 7, AR089: 7		
								S0053: 1		
								S0053: 1		
								AR060: 8, AR316: 7, AR089: 6	19p13	601011, 601011, 601011, 601768, 601843
								H0253: 18, H0618: 16, H0052: 10, L0747: 8, H0024: 7, H0424: 7, L0779: 7, H0584: 6, L0769: 6, H0494: 5, L0514: 6		

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1738	HNHHA47	658743	1748	27 - 56	4345		1, L0375: 1, L0378: 1, L0655: 1, L0657: 1, L0511: 1, L0512: 1, L0636: 1, L0782: 1, L0783: 1, L0383: 1, L0787: 1, L0792: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0053: 1, H0691: 1, H0547: 1, H0519: 1, H0435: 1, H0670: 1, H0648: 1, H0672: 1, H0539: 1, L0602: 1, S0152: 1, H0522: 1, H0696: 1, H0187: 1, H0436: 1, S014: 1, S0027: 1, S0028: 1, S0032: 1, L0750: 1, L0786: 1, L0755: 1, H0445: 1, S0434: 1, S0436: 1, S0192: 1, S0194: 1, S0042: 1 and H0506: 1.		
1739	HNHN22	855956	1749	104 - 217	4346		L0761: 2, L0517: 2, L0809: 2, S0442: 1, S0408: 1, H0014: 1, H0647: 1, L0800: 1, L0764: 1 and S0053: 1.		
1740	HNHHW53	604903	1750	142 - 183	4347		S0053: 3		
1741	HNHIB40	533057	1751	273 - 326	4348		S0053: 1		
1742	HNHKI74	777856	1752	127 - 159	4349		AR060: 7, AR316: 5, AR089: 3		
1743	HNHKV56	800877	1753	294 - 494	4350		S0053: 1		
1744	HNHLD80	839255	1754	164 - 352	4351		S0216: 1		
1745	HNHLS76	853372	1755	138 - 257	4352	Pro-26 to Pro-33.	S0216: 1 and L0746: 1. AR089: 15, AR316: 13, AR060: 10 H0063: 1 and S0216: 1. AR060: 2, AR316: 2, AR089: 1 H0179: 1, S0052: 1 and S0216: 1.	Xq13	300011, 300011, 300032, 300032, 301310, 305100, 305450, 308380, 308380, 309605, 311800, 311800, 311870, 314580
1746	HNHLZ47	838255	1756	177 - 281	4353		AR060: 4, AR316: 3.		

1747	HNHMP15	836065	1757	51 - 242	4354	Pro-22 to Gly-29, His-48 to Ser-62.	AR089: 2 S0216: 2		
1748	HNHMP62	834974	1758	220 - 330	4355		AR060: 6, AR316: 4, AR089: 2 S0216: 1		
1749	HNHMY76	838256	1759	25 - 192	4356	Glu-25 to Ser-37.	AR060: 5, AR316: 4, AR089: 2 S0216: 1		
1750	HNHMYZ01	836066	1760	250 - 351	4357		AR089: 19, AR316: 15, AR060: 10 H0658: 2, S0216: 1 and L0777: 1.		
1751	HNHND14	836067	1761	255 - 392	4358		AR060: 6, AR316: 5, AR089: 3 S0216: 1		
1752	HNHND94	840374	1762	17 - 112	4359	Met-1 to Gln-12.	AR060: 6, AR316: 5, AR089: 3 S0216: 1		
1753	HNHOF09	838264	1763	539 - 739	4360	Gln-14 to Ser-32, Pro-53 to Leu-60.	AR060: 7, AR316: 6, AR089: 4 S0052: 1 and S0216: 1.		
1754	HNKAA76	802009	1764	384 - 527	4361	Pro-20 to Pro-28, Pro-36 to Cys-41.	AR060: 3, AR316: 3, AR089: 1 S0216: 1		
							AR089: 4, AR316: 2, AR060: 1 H0040: 6, H0556: 4, L0646: 4, H0265: 3, H0253: 3, H0046: 3, L0794: 3, L0439: 3, S0436: 3, S0040: 2, H0618: 2, H0309: 2, H0622: 2, H0494: 2, L0764: 2, L0776: 2, L0809: 2, L0751: 2, L0758: 2, H0542: 2, H0341: 1, S0356: 1, S0360: 1, H0550: 1, H0156: 1, H0581: 1, H0231: 1, H0572: 1, H0012: 1, H0057: 1, H0355: 1, H0039: 1, H0163: 1, H0090: 1, H0551: 1, S0038: 1, H0100: 1, H0646: 1, L0640:		

1755	HNTAF42	824082	1765	82 - 231	4362	Lys-30 to Pro-36.	1, L0371: 1, L0667: 1, L0648: 1, L5564: 1, L0803: 1, L0806: 1, L0659: 1, L0789: 1, L0665: 1, H0690: 1, H0435: 1, H0658: 1, H0660: 1, H0672: 1, S0330: 1, S0406: 1, L0750: 1, L0752: 1, L0731: 1, L0757: 1, S0434: 1, L0593: 1, H0422: 1, S0042: 1, S0424: 1 and H0008: 1. H0057: 1, H0014: 1, H0687: 1, H0135: 1, L0763: 1, L0774: 1, L0783: 1, L0809: 1, H0519: 1, L0751: 1, L0755: 1 and H0422: 1.		
1756	HNTCG32	897776	1766	178 - 1254	4363	Tyr-63 to Thr-74, Gly-135 to Trp-142, Asn-165 to Lys-171, Glu-210 to Lys-232, Ser-244 to Leu-250, Glu-284 to Asp-289, Asp-321 to Asn-333.	AR194: 22, AR281: 17, AR202: 17, AR280: 16, AR246: 16, AR198: 14, AR314: 14, AR265: 14, AR315: 13, AR243: 13, AR205: 13, AR206: 12, AR263: 12, AR192: 12, AR244: 12, AR039: 11, AR241: 10, AR033: 10, AR266: 10, AR053: 10, AR204: 10, AR251: 10, AR310: 9, AR271: 9, AR283: 9, AR213: 9, AR274: 9, AR299: 8, AR284: 8, AR270: 8, AR289: 8, AR275: 8, AR282: 8, AR096: 8, AR285: 7, AR309: 7, AR052: 7, AR268: 7, AR300: 7, AR089: 7, AR277: 7, AR312: 7, AR273: 7, AR313: 7, AR295: 7, AR232: 7, AR253: 7, AR296: 6, AR249: 6, AR316: 6, AR290: 6, AR291: 6.		

1757	HNTNY89	886188	1767	158 - 271	4364	Cys-31 to Leu-37.	AR269: 6, AR182: 6, AR104: 6, AR183: 6, AR248: 6, AR055: 6, AR298: 5, AR240: 5, AR247: 5, AR267: 5, AR286: 5, AR292: 5, AR177: 5, AR294: 4, AR186: 4, AR226: 4, AR175: 4, AR234: 4, AR185: 4, AR227: 4, AR238: 4, AR060: 4, AR258: 4, AR229: 4, AR184: 4, AR293: 3, AR218: 3, AR231: 3, AR061: 3, AR237: 3, AR233: 3, AR256: 3, AR259: 3, AR179: 2, AR219: 2 L0777: 6, L0747: 4, L0731: 4, L0803: 3, L0749: 3, L0759: 3, S0474: 2, L0794: 2, L0744: 2, L0754: 2, L0750: 2, H0638: 1, H0208: 1, H0427: 1, S0250: 1, H0383: 1, H0135: 1, H0488: 1, S0352: 1, L0638: 1, L0630: 1, L0804: 1, L0790: 1, L0792: 1, H0519: 1, H0710: 1, L0756: 1, L0752: 1 and H0445: 1.		
							AR238: 14, AR227: 12, AR183: 11, AR232: 10, AR281: 10, AR263: 10, AR246: 9, AR315: 9, AR283: 9, AR060: 9, AR194: 9, AR234: 9, AR313: 8, AR265: 8, AR310: 8, AR282: 8, AR233: 7, AR237: 7, AR061: 7, AR226: 7, AR184: 7, AR192: 7, AR289: 7, AR229: 7,		

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1758	HNTRB25	600367	1768	162 - 455	4365	Leu-50 to Ser-59, Gly-82 to Ser-97.	2, H0251: 2, H0546: 2, H0620: 2, H0165: 2, H0135: 2, T0041: 2, S0344: 2, S0002: 2, L0771: 2, L0522: 2, L0783: 2, H0521: 2, L0744: 2, L0748: 2, L0740: 2, L0592: 2, H0423: 2, H0506: 2, H0584: 1, H0685: 1, H0295: 1, T0049: 1, S0134: 1, H0583: 1, H0484: 1, H0255: 1, H0661: 1, H0458: 1, S0418: 1, S0356: 1, S0358: 1, S0376: 1, S0444: 1, S0360: 1, S0408: 1, H0587: 1, H0559: 1, H0492: 1, H0486: 1, T0048: 1, S0049: 1, H0196: 1, T0110: 1, H0012: 1, H0083: 1, H0284: 1, T0023: 1, H0181: 1, H0032: 1, H0383: 1, S0366: 1, H0090: 1, H0063: 1, H0087: 1, H0268: 1, H0412: 1, T0042: 1, H0509: 1, H0130: 1, H0633: 1, S0144: 1, S0422: 1, H0529: 1, L0763: 1, L0638: 1, L0643: 1, L0764: 1, L0773: 1, L0662: 1, L0804: 1, L0650: 1, L0375: 1, L0805: 1, L0776: 1, L0655: 1, L0657: 1, L0658: 1, L0384: 1, L0544: 1, L0529: 1, L0541: 1, L0647: 1, L0791: 1, L0664: 1, L0438: 1, H0520: 1, H0519: 1, H0658: 1, S0378: 1, S0146: 1, S0406: 1, H0555: 1, L0611: 1, L0779: 1, L0731: 1, L0757: 1, H0343: 1, L0596: 1, L0591: 1, S0106: 1, S0011: 1, S0026: 1 and H0542: 1. AR264: 7, AR253: 6, AR311: 6, AR308: 5, AR312: 5, AR309: 5, AR053: 5, AR263: 4, AR212: 4, AR213: 4,		
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1759	HNTRQ40	809100	1769	132 - 407	4366	Thr-17 to Cys-25, Pro-27 to Arg-41, Pro-55 to Thr-67, Ser-82 to Gln-91.	AR231: 1, AR185: 1, AR218: 1, AR255: 1, AR170: 1, AR232: 1, AR227: 1, AR210: 1, AR178: 1, AR294: 1, AR197: 1, AR293: 1, AR174: 1, AR182: 1 H0735: 1 and H0547: 1.			
1760	HNTSQ23	645176	1770	1255 - 1371	4367		AR244: 4, AR183: 3, AR310: 3, AR295: 3, AR265: 3, AR263: 2, AR280: 2, AR194: 2, AR312: 2, AR292: 2, AR294: 2, AR268: 2, AR096: 2, AR232: 2, AR315: 2, AR237: 1, AR274: 1, AR314: 1, AR238: 1, AR293: 1, AR291: 1, AR269: 1, AR277: 1, AR033: 1, AR227: 1, AR313: 1, AR282: 1, AR052: 1, AR309: 1, AR281: 1, AR229: 1, AR270: 1, AR267: 1, AR298: 1, AR285: 1, AR213: 1, AR251: 1, AR284: 1 L0766: 3, H0521: 3, H0619: 2, H0039: 2, H0040: 2, S0052: 2, H0556: 1, S0212: 1, S0420: 1, H0734: 1, S0007: 1, S0045: 1, H0559: 1, H0575: 1, H0271: 1, H0284: 1, H0553: 1, H0623: 1, H0022: 1, H0547: 1, H0593: 1, S0126: 1, H0435: 1, H0539: 1 and H0576: 1.	3p13-q23	156845, 156845, 156845, 164500, 182280, 227646, 261510, 600151,	
							AR089: 8, AR316: 6, AR060: 5 L0756: 5, H0051: 4, L0438: 4, L0759: 4, S0031: 4, S0007:			

1761	HOAH51	855961	1771	187 - 363	4368	Ile-5 to Tyr-10.	3, S6028: 3, L0666: 3, L0439: 3, H0556: 2, S6024: 2, S0300: 2, H0013: 2, S0036: 2, L0770: 2, L0411: 1, L0393: 1, H0393: 1, H0581: 1, H0235: 1, H0327: 1, H0046: 1, H0009: 1, L0157: 1, H0201: 1, S0051: 1, H0399: 1, H0064: 1, H0038: 1, H0040: 1, H0634: 1, H0100: 1, L0638: 1, L0796: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0606: 1, L0791: 1, L0792: 1, H0144: 1, H0698: 1, H0547: 1, H0519: 1, H0659: 1, L0779: 1, L0752: 1, S0260: 1 and H0136: 1.	600163, 601154
							H0543: 8, H0046: 7, L0766: 7, L0731: 6, H0619: 5, L0794: 5, L0665: 5, L0740: 5, S0134: 4, H0486: 4, H0615: 4, L0666: 4, L0663: 4, H0624: 3, H0171: 3, H0657: 3, S0001: 3, H0255: 3, H0252: 3, H0038: 3, H0100: 3, L0758: 3, L0759: 3, S0192: 3, H0423: 3, S0218: 2, H0583: 2, H0650: 2, S0360: 2, H0369: 2, H0333: 2, H0331: 2, L0021: 2, T0082: 2, H0620: 2, H0024: 2, S0051: 2, H0424: 2, L0598: 2, L0763: 2, L0776: 2, L0655: 2, L0659: 2, L0647: 2, L0664: 2, H0660: 2, H0539: 2, H0555: 2, L0747: 2, L0756: 2, H0445: 2, L0605: 2, S0242: 2, H0170: 1, H0585: 1, S0114: 1, S0116: 1, S0212: 1, S0400: 1, H0254: 1, H0663: 1, H0662: 1, H0638: 1, S0418: 1, S0354: 1, S0376: 1, S0408: 1, T0008: 1, H0637: 1, S0045: 1, H0441: 1, H0013: 1, S0010: 1, T0071: 1, H0052:	

1762	HOAA176	824073	1772	121 - 171	4369	Gly-2 to Ser-8.	1, H0251: 1, H0596: 1, H0457: 1, H0571: 1, L0471: 1, S0050: 1, H0051: 1, T0010: 1, H0399: 1, S0250: 1, S0003: 1, T0006: 1, H0644: 1, H0032: 1, H0591: 1, T0067: 1, H0264: 1, H0059: 1, T0041: 1, H0561: 1, H0641: 1, H0646: 1, S0422: 1, H0695: 1, L4497: 1, L0637: 1, L0646: 1, L0764: 1, L0662: 1, L0774: 1, L0375: 1, L0651: 1, L0378: 1, L0809: 1, L0789: 1, H0701: 1, H0547: 1, H0593: 1, S0126: 1, H0684: 1, H0658: 1, H0666: 1, H0648: 1, H0672: 1, S0328: 1, S0378: 1, H0696: 1, S0174: 1, H0436: 1, S0027: 1, S0206: 1, L0745: 1, L0779: 1, S0260: 1, L0591: 1, L0593: 1, L0595: 1, S0026: 1, H0667: 1, H0136: 1, H0422: 1, L0465: 1, S0424: 1, S0458: 1 and H0506: 1. L0766: 7, H0486: 6, L0665: 6, L0747: 6, L0731: 6, L0764: 5, L0662: 5, L0794: 5, L0439: 5, L0740: 5, H0615: 4, L0774: 4, L0776: 4, L0663: 4, H0543: 4, H0171: 3, S0001: 3, H0052: 3, H0252: 3, H0038: 3, L0646: 3, L0375: 3, L0659: 3, H0555: 3, L0750: 3, L0756: 3, L0758: 3, L0759: 3, S0192: 3, H0624: 2, H0650: 2, H0657: 2, S0376: 2, S0045: 2, H0333: 2, H0331: 2, L0021: 2, H0024: 2, H0051: 2, H0059: 2, L0598: 2, L0763: 2, L0769: 2, L0637: 2, L0771: 2, L0647: 2, L0789: 2, L0666: 2, H0660: 2, H0539: 2, H0436: 2, S0434: 2, S0436: 2, S0242:	17p13.3	113721, 247200, 600059, 601545
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1763	HOAAJ09	654862	1773	60 - 173	4370	Gly-28 to Ser-37.	2, H0170: 1, H0556: 1, H0685: 1, H0717: 1, H0583: 1, H0656: 1, S0212: 1, H0663: 1, H0662: 1, S0418: 1, S0354: 1, S0444: 1, S0360: 1, S0408: 1, T0008: 1, H0637: 1, S0046: 1, H0619: 1, H0645: 1, H0393: 1, H0369: 1, H0549: 1, S0222: 1, H0441: 1, H0013: 1, H0042: 1, S0010: 1, H0390: 1, H0705: 1, S0049: 1, H0251: 1, H0263: 1, H0596: 1, H0327: 1, H0046: 1, H0041: 1, H0009: 1, H0123: 1, L0471: 1, S0050: 1, T0010: 1, H0083: 1, H0399: 1, H0375: 1, S0003: 1, T0006: 1, H0032: 1, H0591: 1, T0067: 1, H0477: 1, H0264: 1, H0623: 1, S0038: 1, L0370: 1, H0561: 1, H0641: 1, S0422: 1, H0695: 1, H0529: 1, L0638: 1, L0772: 1, L0773: 1, L0378: 1, L0805: 1, L0657: 1, L4669: 1, L0783: 1, L0809: 1, L0791: 1, L0792: 1, L0664: 1, H0547: 1, S0126: 1, H0658: 1, H0666: 1, H0648: 1, S0328: 1, S0378: 1, H0696: 1, S0174: 1, S0146: 1, H0478: 1, S0027: 1, S0206: 1, L0745: 1, L0779: 1, S0260: 1, H0445: 1, L0591: 1, L0593: 1, L0595: 1, S0026: 1, H0667: 1, S0196: 1, H0423: 1, L0465: 1, S0424: 1, H0506: 1 and H0352: 1.		
1764	HOAAL10	566867	1774	20 - 262	4371	Pro-52 to Met-57,	L0439: 5, L0779: 3, L0766: 2, L0756: 2, H0441: 1, H0599: 1, H0434: 1, H0051: 1, H0252: 1, H0328: 1, L0518: 1, L0599: 1 and L0366: 1.		
							H0252: 1		

1765	HOAAU13	634732	1775	182 - 262	4372	Ser-73 to Phe-79.	H0309: 2, H0252: 1 and H0144: 1.		
1766	HOABC12	801922	1776	186 - 275	4373		L0439: 7, L0748: 5, H0255: 4, H0253: 4, H0012: 3, H0620: 3, H0617: 3, L0783: 3, L0438: 3, H0618: 2, H0046: 2, L0769: 2, L0766: 2, L0532: 2, L0663: 2, H0521: 2, L0750: 2, L0777: 2, L0592: 2, H0543: 2, H0650: 1, S0212: 1, S0001: 1, H0483: 1, H0254: 1, H0638: 1, S0418: 1, S0358: 1, H0580: 1, S0468: 1, H0549: 1, H0559: 1, H0013: 1, S0280: 1, H0318: 1, H0052: 1, H0024: 1, H0252: 1, H0424: 1, H0553: 1, H0644: 1, H0124: 1, H0376: 1, H0135: 1, H0040: 1, H0087: 1, H0488: 1, T0042: 1, H0494: 1, H0509: 1, L0768: 1, L0388: 1, L0657: 1, L0659: 1, L0789: 1, L0352: 1, S0126: 1, H0689: 1, H0658: 1, H0670: 1, S0378: 1, H0436: 1, H0478: 1, H0626: 1, L0742: 1, L0780: 1, L0731: 1, H0445: 1, L0608: 1, L0366: 1 and S0276: 1.	22q13.33	
1767	HOABH36	740758	1777	181 - 396	4374		L0764: 9, L0747: 6, L0766: 5, L0662: 3, L0070: 3, L0748: 3, S0222: 2, H0014: 2, H0561: 2, L0529: 2, L0758: 2, L0596: 2, H0265: 1, H0583: 1, S0356: 1, S0360: 1, L0021: 1, H0581: 1, H0309: 1, H0596: 1, H0545: 1, H0172: 1, H0188: 1, S0214: 1, H0252: 1, H0615: 1, H0553: 1, L0456: 1, H0135: 1, H0264: 1, S0426: 1, L0769: 1, L0646: 1, L0641: 1, L0645: 1, L0773: 1, L0768: 1, L0774: 1, L0775: 1	21q22.3	120220, 120240, 123580, 151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145

1768	HOBNA89	604999	1778	15 - 128	4375	His-18 to Gly-23, Ser-31 to Trp-36.	1, L0375: 1, L0378: 1, L0655: 1, L0658: 1, L0659: 1, L0783: 1, L0532: 1, L0666: 1, L0664: 1, H0144: 1, H0689: 1, H0521: 1, L0611: 1, S0432: 1, S0028: 1, L0439: 1, L0749: 1, L0757: 1, L0759: 1, L0589: 1, L0591: 1, L0599: 1, L0601: 1, H0543: 1 and H0423: 1. H0365: 1		
1769	HOBNF51	580861	1779	223 - 426	4376	Ser-6 to Asp-14, Pro-53 to Gln-60.	L0731: 10, L0758: 10, H0038: 9, L0748: 9, L0439: 9, H0551: 5, L0777: 5, L0591: 5, S0192: 5, H0013: 4, H0581: 4, H0090: 4, H0616: 4, L0749: 4, L0602: 3, L0747: 3, S0212: 2, S0420: 2, H0351: 2, S0222: 2, H0370: 2, H0392: 2, H0318: 2, H0596: 2, T0110: 2, H0123: 2, L0471: 2, S0250: 2, L0483: 2, H0032: 2, S0366: 2, H0135: 2, H0591: 2, S0422: 2, L0521: 2, L0766: 2, L0774: 2, L0775: 2, L0809: 2, H0144: 2, S0126: 2, L0743: 2, L0752: 2, H0444: 2, L0596: 2, L0588: 2, L0485: 2, L0608: 2, L0595: 2, H0665: 2, S0194: 2, S0412: 2, H0170: 1, T0049: 1, S0418: 1, S0007: 1, S0046: 1, H0619: 1, H0441: 1, H0497: 1, H0486: 1, T0109: 1, S0280: 1, H0108: 1, H0042: 1, H0618: 1, S0182: 1, H0052: 1, H0251: 1, H0309: 1, H0544: 1, H0046: 1, H0050: 1, H0023: 1, S0388: 1, H0275: 1, H0510: 1, S6028: 1, H0267: 1, H0271: 1, H0290: 1, H0615: 1, H0428: 1, T0006: 1, H0553: 1, S0364: 1,	13q32.1- 13q32.3	



1770	HODAH24	656887	1780	39 - 131	4377				T0067: 1, H0413: 1, H0100: 1, S0210: 1, S0426: 1, H0529: 1, L0769: 1, L0761: 1, L0372: 1, L0662: 1, L0363: 1, L0803: 1, L0375: 1, L0657: 1, L0384: 1, L0663: 1, L0664: 1, H0547: 1, H0365: 1, H0666: 1, H0672: 1, S0328: 1, S0380: 1, S0152: 1, H0521: 1, S0314: 1, S0027: 1, S0206: 1, L0740: 1, L0750: 1, H0445: 1, L0599: 1, S0196: 1, H0543: 1 and S0424: 1.		
1771	HODAH46	862551	1781	201 - 575	4378				H0328: 1 AR215: 4, AR282: 3, AR192: 3, AR224: 3, AR168: 2, AR171: 2, AR225: 2, AR165: 2, AR291: 2, AR176: 2, AR214: 2, AR250: 2, AR182: 2, AR181: 2, AR089: 2, AR270: 1, AR217: 1, AR164: 1, AR277: 1, AR195: 1, AR296: 1, AR246: 1, AR166: 1, AR267: 1, AR177: 1, AR312: 1, AR180: 1, AR104: 1, AR210: 1, AR216: 1, AR286: 1 H0052: 3, H0050: 2, H0650: 1, H0657: 1, S0212: 1, S0358: 1, S0045: 1, H0586: 1, H0575: 1, H0046: 1, H0292: 1, H0328: 1, H0622: 1, H0135: 1, L0766: 1, S0374: 1, H0648: 1, H0539: 1, H0521: 1, L0750: 1, L0591: 1, H0542: 1 and S0460: 1.		
1772	HODAV25	787471	1782	19 - 39	4379				AR089: 11, AR316: 10, AR060: 10 L0803: 7, L0754: 7, H0694:	15	

1773	HODAW64	840069	1783	3184 - 3285	4380	Gly-6 to Lys-12.	5, L0794: 4, S0360: 3, H0373: 3, L0804: 3, L0438: 3, L0439: 3, L0752: 3, L0470: 2, H0497: 2, H0625: 2, L0651: 2, L0657: 2, L0663: 2, H0682: 2, L0741: 2, L0747: 2, L0756: 2, L0759: 2, H0686: 1, H0656: 1, H0663: 1, S0354: 1, H0156: 1, L0021: 1, S0010: 1, L0040: 1, L0471: 1, S0051: 1, H0328: 1, H0428: 1, H0674: 1, H0135: 1, S0038: 1, H0494: 1, L0763: 1, L0768: 1, L0774: 1, L0775: 1, L0375: 1, L0784: 1, L0661: 1, L0809: 1, L0666: 1, L0665: 1, H0690: 1, H0672: 1, S0330: 1, S0378: 1, L0750: 1, L0779: 1, L0777: 1, L0755: 1, H0665: 1, S0242: 1 and H0542: 1.			
1774	HODAY17	806341	1784	2128 - 2175	4381		S0045: 1, H0051: 1, H0328: 1 and L0764: 1. AR060: 5, AR316: 5, AR089: 5 L0748: 9, L0439: 5, L0717: 4, L0659: 4, L0663: 4, H0658: 4, H0656: 3, S0045: 3, H0486: 3, L0766: 3, L0666: 3, L0744: 3, L0749: 3, L0758: 3, H0542: 3, H0265: 2, H0556: 2, H0458: 2, H0587: 2, H0599: 2, H0318: 2, H0266: 2, L0770: 2, L0769: 2, L0646: 2, L0665: 2, H0682: 2, H0436: 2, S0028: 2, L0747: 2, L0756: 2, L0752: 2, L0731: 2, L0608: 2, H0543: 2, H0423: 2, S0040: 1, H0402: 1, S0418: 1, S0360: 1, H0619: 1, H0392: 1, H0643: 1, H0635: 1, S0280: 1, H0042: 1, H0581: 1, H0052: 1, L0471: 1, H0620: 1, H0024: 1	8	12q13.1	126337, 600808, 601284, 601769, 601769, 602116

1775	HODBA45	601517	1785	179 - 307	4382			1, H0014: 1, H0107: 1, T0010: 1, H0179: 1, H0271: 1, H0687: 1, H0328: 1, H0264: 1, H0488: 1, T0042: 1, H0494: 1, H0641: 1, H0529: 1, L0763: 1, L0638: 1, L0761: 1, L0800: 1, L0648: 1, L0662: 1, L0381: 1, L0375: 1, L0651: 1, L0376: 1, L0629: 1, L0657: 1, L0634: 1, L0636: 1, L0788: 1, L0532: 1, H0519: 1, H0689: 1, H0670: 1, H0521: 1, S0032: 1, L0743: 1, L0754: 1, L0750: 1, L0588: 1, L0601: 1, H0422: 1 and H0352: 1.		
1776	HODBC79	566781	1786	179 - 283	4383			H0328: 1 and L0747: 1. S0360: 7, L0803: 4, L0659: 4, L0666: 3, L0663: 3, S0356: 2, H0328: 2, L0637: 2, H0666: 2, L0777: 2, L0731: 2, L0757: 2, S0192: 2, S0040: 1, S0342: 1, S0376: 1, T0008: 1, S6026: 1, H0486: 1, H0545: 1, H0598: 1, H0412: 1, H0413: 1, S0210: 1, L0646: 1, L0662: 1, L0606: 1, L0518: 1, L0664: 1, L0665: 1, L0565: 1, H0658: 1, L0439: 1, L0745: 1 and H0653: 1.		
1777	HODBD79	638131	1787	91 - 369	4384	Asp-18 to Asn-24, Thr-42 to Ala-49.		L0731: 2, H0635: 1, H0318: 1, H0581: 1, H0328: 1, L0766: 1, L0783: 1, L0809: 1, L0666: 1, L0665: 1, S0052: 1, L0439: 1, L0740: 1, L0747: 1, L0780: 1, L0752: 1, L0758: 1, L0362: 1, L0366: 1 and S0424: 1.		
1778	HODBF12	584792	1788	68 - 79	4385			S0360: 20, L0659: 15, L0777: 13, S0003: 9, S0356: 6, L0794: 6, L0663: 6, S0192: 6, H0486: 5, L0803: 5, L0666: 5, L0731: 5, L0757: 5, S0250: 4, H0412: 4, H0413: 4, S0011: 8		

1779	HODBF86	605001	1789	228 - 269	4386			4, S0376: 3, L0662: 3, H0658: 3, S0212: 2, H0431: 2, S0214: 2, H0328: 2, H0090: 2, H0646: 2, S0210: 2, L0637: 2, L0657: 2, S0126: 2, H0666: 2, L0439: 2, S0194: 2, H0171: 1, S0040: 1, S0342: 1, H0661: 1, T0008: 1, S6026: 1, L0717: 1, H0411: 1, S6016: 1, H0427: 1, H0590: 1, H0545: 1, H0266: 1, H0628: 1, H0032: 1, H0598: 1, H0163: 1, H0551: 1, T0004: 1, L0564: 1, S0440: 1, L0762: 1, L0646: 1, L0649: 1, L0606: 1, L0629: 1, L0656: 1, L0518: 1, L0809: 1, L0790: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, L0565: 1, H0365: 1, H0684: 1, S0027: 1, S0028: 1, L0745: 1, L0779: 1, L0758: 1, S0436: 1, S0026: 1, H0653: 1 and L0465: 1.				114208, 114208, 119300, 120620, 120620, 120920, 134370, 134370, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 600105, 600759, 601494, 601975
1780	HODBF91	633731	1790	383 - 484	4387			AR060: 7, AR316: 7, AR089: 6 L0438: 2, H0170: 1, S0358: 1, S0408: 1, H0574: 1, H0485: 1, H0545: 1, H0373: 1, H0328: 1, S0422: 1, L0520: 1, L0766: 1, L0803: 1, L0774: 1, L0665: 1, H0547: 1, S0126: 1, L0439: 1 and L0759: 1.	1			

1781	HODBW34	877655	1791	241 - 285	4388		H0179: 2, H0328: 1, H0316: 1 and L0748: 1.		
1782	HODBX93	897498	1792	169 - 186	4389		AR060: 6, AR316: 4, AR089: 3 H0328: 1		
1783	HODBZ06	740759	1793	159 - 194	4390		AR174: 42, AR175: 35, AR191: 31, AR189: 30, AR270: 27, AR183: 27, AR177: 27, AR176: 26, AR190: 24, AR261: 23, AR291: 22, AR295: 21, AR182: 21, AR235: 20, AR173: 20, AR296: 19, AR218: 19, AR287: 18, AR264: 18, AR253: 18, AR181: 17, AR269: 17, AR178: 17, AR192: 17, AR297: 16, AR285: 16, AR268: 16, AR250: 16, AR288: 15, AR219: 15, AR195: 15, AR188: 15, AR089: 15, AR256: 15, AR197: 14, AR255: 14, AR210: 14, AR286: 14, AR246: 13, AR060: 13, AR258: 13, AR316: 13, AR240: 13, AR260: 13, AR236: 13, AR289: 12, AR257: 12, AR274: 12, AR299: 12, AR290: 12, AR180: 12, AR266: 11, AR254: 11, AR211: 11, AR245: 10, AR161: 10, AR163: 10, AR271: 10, AR162: 9, AR309: 9, AR179: 9, AR267: 9, AR313: 9, AR164: 9, AR166: 9, AR282: 9, AR293: 9, AR039: 9, AR193: 9, AR294: 9,	1q25.1-q31.1	134580, 145001, 145260, 150292, 208250, 600105, 600759, 600995, 601652

[illegible]

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1784	HODCA73	847421	1794	130 - 162	4391			L0439: 5, L0779: 3, L0766: 2, L0756: 2, H0441: 1, H0599: 1, H0434: 1, H0051: 1, H0252: 1, H0328: 1, L0518: 1, L0599: 1 and L0366: 1.					
1785	HODCV86	637035	1795	250 - 360	4392			AR060: 7, AR316: 5, AR089: 4 H0265: 4, H0271: 2, H0328: 2, H0556: 1, S0114: 1, L0539: 1, S0002: 1, H0444: 1 and L0599: 1.					
1786	HODCY44	737875	1796	111 - 254	4393	Lys-27 to Lys-35.		H0328: 1					
1787	HODDB58	580862	1797	86 - 187	4394			AR060: 4, AR316: 4, AR089: 3 H0052: 1 and H0328: 1.					

1788	HODDG72	655357	1798	186 - 359	4395			H0615: 2, H0392: 1, H0013: 1, H0009: 1, H0328: 1 and T0041: 1.		
1789	HODDJ25	824592	1799	1540 - 1593	4396			AR060: 14, AR316: 10, AR089: 6 H0574: 3, S0003: 3, L0740: 3, L0749: 3, S0358: 2, S0444: 2, H0619: 2, H0393: 2, H0046: 2, S0214: 2, H0328: 2, S0438: 2, L0770: 2, L0769: 2, L0766: 2, L0439: 2, L0754: 2, L0752: 2, L0758: 2, L0759: 2, H0656: 1, S0282: 1, H0589: 1, S0418: 1, S0420: 1, S0360: 1, H0152: 1, H0592: 1, H0013: 1, H0156: 1, H0310: 1, H0545: 1, H0024: 1, H0252: 1, H0059: 1, H0560: 1, S0440: 1, L0520: 1, L0662: 1, L0767: 1, L0775: 1, S0374: 1, L0352: 1, S0406: 1, S0027: 1, L0748: 1, L0751: 1, L0747: 1, L0750: 1, S0260: 1, L0485: 1, L0595: 1, S0026: 1 and H0506: 1.		
1790	HODDN21	633705	1800	237 - 356	4397	Ser-18 to Trp-31, Gly-33 to Thr-38.		AR060: 7, AR316: 6, AR089: 4 H0328: 2		
1791	HODDO31	658710	1801	122 - 229	4398			H0328: 1		
1792	HODDQ06	834824	1802	834 - 920	4399	Gly-1 to Leu-6.		AR060: 5, AR316: 4, AR089: 3 L0766: 5, L0759: 4, H0038: 3, L0666: 3, L0779: 3, L0755: 3, H0266: 2, H0591: 2, H0616: 2, S0152: 2, L0758: 2, H0170: 1, T0002: 1, H0686: 1, S0212: 1, H0662: 1, S0356: 1, H0497: 1, H0486: 1, H0421: 1, H0328: 1, S0036: 1, H0059: 1, H0494: 1, H0529: 1, L0769: 1, L0761: 1, L0800: 1, L0771: 1, L0794: 1	8p21-p12	152760, 173370, 180100, 185430, 270800, 277700, 602629



1793	HODEA20	840376	1803	373 - 432	4400			1, L0653: 1, L0661: 1, H0144: 1, H0520: 1, H0659: 1, L0750: 1, S0011: 1, S0026: 1, H0665: 1 and S0398: 1.		
								AR089: 15, AR060: 12, AR316: 11 H0252: 2, L0438: 2, H0265: 1, H0549: 1, H0051: 1, H0615: 1, S0386: 1, T0068: 1, L0744: 1 and S0452: 1.	6	
1794	HODEM38	835100	1804	527 - 745	4401			AR060: 6, AR316: 5, AR089: 4 H0318: 1, H0615: 1 and H0343: 1.		
1795	HODET37	840377	1805	389 - 469	4402			AR060: 5, AR316: 3, AR089: 2 H0615: 1		
1796	HOEBJ94	795312	1806	558 - 632	4403			H0144: 3, H0013: 2, L0455: 2, S0126: 2, S0116: 1, S0356: 1, H0599: 1, L0471: 1, H0615: 1, H0316: 1, H0598: 1, L0649: 1, S0053: 1, H0520: 1, H0436: 1, H0478: 1, L0748: 1, L0596: 1 and L0591: 1.		
1797	HOEBJ70	836143	1807	197 - 331	4404		Arg-31 to Gln-44.	AR060: 5, AR316: 5, AR089: 4 L0803: 13, L0754: 13, L0744: 11, L0731: 10, L0740: 8, L0758: 6, S0010: 4, L0769: 4, L0783: 4, L0809: 4, L0439: 4, H0052: 3, H0553: 3, L0659: 3, L0743: 3, L0757: 3, H0295: 2, H0294: 2, H0484: 2, H0661: 2, H0370: 2, H0574: 2, S0346: 2, S6028: 2, H0188: 2, L0142: 2, L0763: 2, L0764: 2, L0662: 2, L0768: 2, L0804: 2, L0776: 2, L0755: 2, L0601: 2, L0603: 2, H0584: 1, H0717: 1, H0716: 2.	9	

1798	HOECB33	840378	1808	302 - 373	4405	<p>1, S0218: 1, H0657: 1, H0656: 1, L0785: 1, H0341: 1, S0110: 1, H0483: 1, H0669: 1, S0420: 1, L0005: 1, L0717: 1, H0411: 1, S0222: 1, H0431: 1, S0414: 1, H0156: 1, H0327: 1, H0545: 1, H0012: 1, S0051: 1, H0687: 1, H0615: 1, H0031: 1, H0644: 1, H0628: 1, H0181: 1, L0455: 1, H0038: 1, T0004: 1, H0100: 1, H0130: 1, L0762: 1, L0770: 1, L0638: 1, L0761: 1, L0641: 1, L0644: 1, L0773: 1, L0766: 1, L0650: 1, L0774: 1, L0651: 1, L0378: 1, L0807: 1, L0789: 1, L0666: 1, L0664: 1, L0665: 1, S0374: 1, T0068: 1, L0438: 1, S0126: 1, H0435: 1, H0658: 1, H0660: 1, S0330: 1, H0539: 1, H0521: 1, H0696: 1, L0749: 1, L0779: 1, L0777: 1, S0260: 1, H0444: 1, H0445: 1, S0434: 1, S0436: 1 and H0543: 1.</p>	2		
						<p>AR060: 3, AR316: 3, AR089: 2  L0747: 6, L0777: 5, L0794: 4, L0779: 4, H0052: 3, L0790: 3, L0731: 3, L0758: 3, H0618: 2, L0369: 2, L0770: 2, L0769: 2, L0659: 2, L0542: 2, H0691: 2, L0438: 2, S0126: 2, L0748: 2, L0749: 2, S0420: 1, S0358: 1, S0222: 1, L0622: 1, S0280: 1, H0309: 1, H0545: 1, H0009: 1, H0014: 1, S0388: 1, H0328: 1, H0038: 1, H0040: 1, H0616: 1, H0412: 1, L0761: 1, L0773: 1, L0375: 1, L0809: 1, L0791: 1, S0053: 1, L0565: 1, S0380: 1, L0755: 1, L0757: 1, L0759: 1.</p>			

1799	HOECX21	842866	1809	75 - 188	4406	1, S0031: 1 and L0698: 1. L0748: 6, L0439: 4, L0591: 4, H0599: 3, H0052: 3, H0046: 3, H0050: 3, L0455: 3, S0126: 3, L0747: 3, L0777: 3, L0471: 2, H0038: 2, L0769: 2, L0776: 2, L0666: 2, H0522: 2, L0754: 2, L0752: 2, L0599: 2, S0192: 2, H0422: 2, H0624: 1, T0002: 1, S6024: 1, H0650: 1, S0360: 1, H0586: 1, H0497: 1, H0333: 1, H0574: 1, H0013: 1, H0156: 1, T0082: 1, S0010: 1, S0049: 1, H0196: 1, H0597: 1, H0024: 1, S0362: 1, S0388: 1, T0010: 1, H0354: 1, H0510: 1, H0267: 1, S0250: 1, S0036: 1, H0090: 1, H0040: 1, H0412: 1, H0059: 1, S0438: 1, H0641: 1, S0426: 1, L0371: 1, L0770: 1, L0764: 1, L0766: 1, L0774: 1, L0775: 1, L0651: 1, L0806: 1, L0805: 1, L0653: 1, L0659: 1, L0517: 1, L0791: 1, L0665: 1, S0374: 1, L0565: 1, H0547: 1, H0684: 1, H0670: 1, H0648: 1, H0478: 1, H0631: 1, S0027: 1, L0743: 1, L0744: 1, L0740: 1, L0749: 1, L0779: 1, L0755: 1, L0731: 1, L0757: 1, L0758: 1, L0759: 1, S0031: 1, L0596: 1, L0595: 1 and H0542: 1.		
1800	HOEDE27	825262	1810	403 - 504	4407	S0126: 1		
1801	HOEEK81	844390	1811	501 - 593	4408	L0752: 7, L0755: 4, L0770: 3, L0775: 3, L0745: 3, L0777: 3, S0358: 2, H0393: 2, L0774: 2, L0743: 2, L0731: 2, S0354: 1, S0360: 1, H0574: 1, H0427: 1, H0581: 1, H0012: 1, H0014: 1, H0510: 1, L0456: 1, H0412:	2	

1802	HOEEZ62	638833	1812	258 - 311	4409			1, H0059: 1, H0100: 1, H0509: 1, L0772: 1, L0649: 1, L0803: 1, L0806: 1, L0776: 1, S0374: 1, S0126: 1, L0744: 1, L0748: 1, L0754: 1 and L0749: 1.		
1803	HOEFZ6	847422	1813	695 - 715	4410			AR060: 1140, AR316: 944, AR089: 742 S0126: 1  L0803: 7, L0805: 6, S0007: 5, L0804: 5, L0439: 5, L0754: 4, L0752: 4, H0556: 3, H0574: 3, L0770: 3, L0742: 3, L0756: 3, L0777: 3, L0758: 3, L0759: 3, H0265: 2, S0226: 2, S0222: 2, H0052: 2, H0169: 2, L0794: 2, L0788: 2, H0521: 2, L0744: 2, L0745: 2, H0445: 2, L0599: 2, S0424: 2, L0600: 2, H0170: 1, H0716: 1, H0656: 1, S0400: 1, H0664: 1, H0580: 1, S0300: 1, H0357: 1, H0455: 1, H0486: 1, T0060: 1, T0114: 1, H0013: 1, S0010: 1, H0581: 1, H0596: 1, H0544: 1, H0546: 1, H0545: 1, H0046: 1, H0009: 1, L0471: 1, T0003: 1, H0024: 1, S0362: 1, H0510: 1, H0615: 1, H0428: 1, H0039: 1, H0598: 1, S0036: 1, H0090: 1, H0634: 1, H0487: 1, H0059: 1, S0038: 1, H0509: 1, S0344: 1, H0538: 1, L0769: 1, L0646: 1, L0774: 1, L0493: 1, L0517: 1, L0540: 1, L0783: 1, L0809: 1, L0529: 1, L0787: 1, L0532: 1, L0666: 1, L0663: 1, H0144: 1, H0697: 1, S0374: 1, S0126: 1, H0670: 1, H0539: 1, S0406: 1, S0392: 1, L0747: 1, L0731: 1, L0757: 1, H0667: 1, H0542: 1, L0697: 1 and : 1.		

1804	HOEFL74	561649	1814	142 - 342	4411	Arg-8 to Gly-15, Ala-32 to Thr-52.	AR060: 7, AR316: 6, AR089: 5 S0126: 3, H0619: 1 and H0622: 1.		
1805	HOFMF63	847423	1815	86 - 625	4412	Pro-31 to Ser-39, Cys-79 to Arg-87, Pro-112 to His-119.	AR269: 9, AR183: 8, AR315: 6, AR244: 6, AR202: 6, AR281: 6, AR265: 5, AR268: 5, AR280: 5, AR205: 5, AR251: 5, AR039: 4, AR198: 4, AR089: 4, AR267: 4, AR282: 4, AR060: 4, AR184: 4, AR206: 4, AR316: 4, AR270: 3, AR295: 3, AR299: 3, AR309: 3, AR275: 3, AR033: 3, AR219: 3, AR277: 3, AR263: 3, AR274: 3, AR312: 3, AR096: 3, AR053: 3, AR294: 3, AR271: 3, AR313: 3, AR213: 3, AR177: 3, AR292: 2, AR243: 2, AR283: 2, AR218: 2, AR192: 2, AR104: 2, AR182: 2, AR310: 2, AR247: 2, AR052: 2, AR240: 2, AR298: 2, AR229: 2, AR293: 2, AR055: 2, AR248: 2, AR185: 2, AR300: 2, AR234: 2, AR233: 2, AR314: 2, AR266: 2, AR253: 2, AR291: 2, AR231: 2, AR186: 2, AR290: 2, AR237: 2, AR284: 1, AR289: 1, AR061: 1, AR256: 1, AR241: 1, AR258: 1,	3q21-q25	106165, 117700, 117700, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 222900, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682

1806	HOEJ65	664498	1816	341 - 466	4413	<p>AR175: 1, AR238: 1, AR232: 1, AR296: 1 H0521: 60, H0522: 10, L0777: 7, H0580: 5, H0090: 5, H0494: 4, L0747: 4, L0750: 4, S0132: 3, H0393: 3, H0031: 3, L0806: 3, S014: 3, L0731: 3, H0638: 2, S0360: 2, H0549: 2, T0040: 2, H0575: 2, H0318: 2, H0530: 2, H0545: 2, H0039: 2, H0040: 2, H0412: 2, H0560: 2, L0662: 2, L0768: 2, L0775: 2, H0547: 2, L0754: 2, L0758: 2, H0542: 2, H0624: 1, S0356: 1, S0358: 1, S0045: 1, S0046: 1, S0278: 1, H0431: 1, H0415: 1, H0559: 1, T0039: 1, H0013: 1, H0599: 1, H0036: 1, H0590: 1, H0581: 1, H0251: 1, H0596: 1, H0046: 1, L0471: 1, H0024: 1, H0015: 1, H0083: 1, H0644: 1, H0111: 1, H0628: 1, H0591: 1, H0551: 1, H0056: 1, H0641: 1, S0144: 1, S0344: 1, L0764: 1, L0388: 1, L0552: 1, L0774: 1, L0653: 1, L0654: 1, L0629: 1, L0663: 1, L0664: 1, H0144: 1, H0593: 1, H0689: 1, H0435: 1, S0328: 1, S0330: 1, S0152: 1, H0696: 1, H0187: 1, S0027: 1, S0206: 1, S0032: 1, L0757: 1, H0445: 1, H0595: 1, L0583: 1, S0026: 1 and H0543: 1.</p> <p>S0192: 43, S0360: 16, H0486: 13, S0126: 10, S0212: 9, L0747: 9, S0196: 9, H0144: 8, L0748: 8, S0194: 7, H0170: 6, H0328: 6, L0662: 6, H0624: 5, L0717: 5, H0013: 5, L0665: 5, L0659: 4, L0666: 4, L0731:</p>		
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1807	HOFMK02	684308	1817	129 - 233	4414			4, S0242: 4, H0550: 3, H0251: 3, H0545: 3, H0050: 3, S0250: 3, H0252: 3, L0646: 3, L0794: 3, L0664: 3, L0750: 3, L0752: 3, L0759: 3, S0276: 3, H0645: 2, T0039: 2, H0316: 2, L0598: 2, L0771: 2, L0648: 2, L0653: 2, L0809: 2, L0663: 2, L0565: 2, S0330: 2, L0599: 2, H0653: 2, H0717: 1, H0295: 1, S0356: 1, S0376: 1, S0444: 1, H0619: 1, H0549: 1, H0415: 1, H0601: 1, H0592: 1, H0485: 1, H0427: 1, H0590: 1, L0105: 1, H0318: 1, H0544: 1, H0546: 1, H0024: 1, H0073: 1, H0628: 1, H0212: 1, H0090: 1, H0477: 1, L0564: 1, S0372: 1, H0646: 1, H0652: 1, S0210: 1, L0520: 1, L0762: 1, L0640: 1, L0774: 1, L0806: 1, L0805: 1, L0654: 1, S0148: 1, H0519: 1, H0593: 1, H0435: 1, H0672: 1, H0651: 1, S0328: 1, S0332: 1, S0406: 1, H0631: 1, S3012: 1, S0206: 1, S0032: 1, L0439: 1, L0749: 1, L0779: 1, L0588: 1, L0589: 1, H0668: 1 and H0667: 1.		
1808	HOFMO16	596835	1818	149 - 607	4415	Arg-138 to Arg-143.	AR281: 9, AR263: 7, AR265: 7, AR183: 6, AR204: 6, AR251: 6, AR313: 5, AR243: 5, AR315: 5, AR277: 4, AR267: 4, AR039: 4, AR182: 4, AR283: 4, AR269: 4, AR280: 4, AR247: 4, AR310: 4, AR234: 4, AR055: 4, AR238: 4, AR282: 4,	16p12-pl1.2	108730, 147781, 172471, 182381, 186580, 266600, 600760, 600761, 600761, 602066	

1809	HOFMP62	866469	1819	103 - 306	4416	Gln-26 to Thr-35.	AR060: 4, AR266: 4, AR268: 4, AR294: 4, AR309: 4, AR184: 4, AR270: 3, AR253: 3, AR312: 3, AR289: 3, AR275: 3, AR033: 3, AR292: 3, AR229: 3, AR316: 3, AR226: 3, AR206: 3, AR299: 3, AR300: 3, AR053: 3, AR231: 3, AR284: 3, AR202: 3, AR205: 3, AR295: 3, AR052: 3, AR232: 3, AR061: 3, AR296: 3, AR186: 3, AR227: 3, AR286: 3, AR285: 3, AR291: 3, AR246: 3, AR290: 3, AR096: 3, AR240: 3, AR089: 2, AR233: 2, AR293: 2, AR271: 2, AR198: 2, AR237: 2, AR298: 2, AR213: 2, AR175: 2, AR177: 2, AR218: 2, AR256: 2, AR273: 2, AR258: 2, AR185: 2, AR241: 1, AR104: 1, AR314: 1, AR259: 1, AR248: 1, AR219: 1, AR192: 1 H0415: 1		
							AR207: 38, AR264: 24, AR263: 23, AR308: 21, AR311: 21, AR212: 19, AR213: 19, AR165: 16, AR192: 16, AR309: 16, AR053: 15, AR166: 15, AR164: 15, AR162: 14, AR163: 14, AR195: 14, AR198: 14, AR312: 14,		



								AR089: 14, AR161: 13, AR242: 12, AR197: 12, AR033: 12, AR252: 11, AR245: 11, AR225: 11, AR275: 10, AR215: 10, AR271: 10, AR277: 9, AR177: 9, AR283: 9, AR295: 9, AR282: 9, AR316: 9, AR196: 9, AR246: 9, AR104: 8, AR170: 8, AR185: 8, AR221: 8, AR193: 8, AR171: 8, AR254: 8, AR060: 8, AR274: 8, AR039: 8, AR168: 8, AR055: 8, AR240: 7, AR216: 7, AR172: 7, AR232: 7, AR250: 7, AR299: 7, AR217: 7, AR201: 7, AR297: 7, AR288: 7, AR238: 7, AR272: 7, AR296: 7, AR174: 7, AR239: 7, AR096: 6, AR224: 6, AR214: 6, AR205: 6, AR291: 6, AR285: 6, AR223: 6, AR227: 6, AR286: 6, AR253: 6, AR243: 6, AR313: 5, AR235: 5, AR226: 5, AR234: 5, AR181: 5, AR289: 5, AR199: 5, AR204: 5, AR222: 5, AR293: 5, AR061: 5, AR230: 5, AR300: 5, AR191: 5, AR188: 4, AR247: 4, AR287: 4, AR200: 4, AR261: 4, AR231: 4, AR169: 4, AR229: 4, AR180: 4				
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									AR189: 4, AR290: 3, AR233: 3, AR190: 3, AR203: 3, AR237: 3, AR257: 3, AR294: 3, AR236: 3, AR210: 2, AR228: 2, AR179: 2, AR270: 2, AR256: 2, AR258: 2, AR266: 1, AR255: 1, AR182: 1, AR178: 1, AR211: 1, AR262: 1, AR269: 1, AR183: 1, AR267: 1 H0415: 1				
1810	HOFMT59	588458	1820	159 - 299	4417	Gly-19 to Lys-46.	H0415: 1	1					
1811	HOFMV22	812864	1821	170 - 259	4418		H0415: 1						
1812	HOFND06	824241	1822	272 - 427	4419		S0442: 1 and H0415: 1.						
1813	HOFNY15	668259	1823	30 - 374	4420	Pro-50 to Trp-62, Lys-95 to Ser-114.	H0415: 1	2p24.3-p24.1	602134				
1814	HOFNY28	603911	1824	365 - 478	4421		AR168: 9, AR195: 8, AR197: 8, AR205: 8, AR198: 8, AR165: 7, AR207: 7, AR176: 7, AR246: 7, AR166: 7, AR272: 7, AR263: 7, AR164: 7, AR242: 7, AR245: 7, AR250: 6, AR271: 6, AR243: 6, AR053: 6, AR192: 6, AR309: 6, AR089: 6, AR308: 6, AR212: 6, AR174: 6, AR311: 6, AR177: 6, AR162: 6, AR282: 6, AR312: 6, AR039: 6, AR264: 6, AR161: 6, AR163: 5, AR238: 5, AR213: 5, AR274: 5, AR060: 5, AR201: 5, AR193: 5, AR204: 5, AR169: 5.						

Parameter	Value	Unit
Temperature	25.0	°C
Pressure	1.0	atm
Flow rate	1.0	L/min
Concentration	0.1	mol/L
pH	7.0	
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	nm
Detector	Photodiode array	
Injection volume	10	μL
Column	C18	
Mobile phase	Water/Acetonitrile	
Gradient	0-100% ACN in 10 min	
Flow rate	1.0	mL/min
Temperature	30.0	°C
Wavelength	254	nm
Scan rate	1.0	nm/min
Integration time	1.0	s
Resolution	0.1	

[illegible]

1816	HOGAA41	843499	1826	640 - 1260	4423	Lys-78 to Asp-84, Pro-157 to Phe-164, Thr-199 to Glu-206.	AR089: 6, AR202: 4, AR243: 3, AR169: 3, AR199: 2, AR316: 2, AR171: 2, AR170: 2, AR168: 2, AR060: 2, AR180: 2, AR265: 2, AR223: 2, AR284: 2, AR245: 2, AR216: 2, AR312: 1, AR272: 1, AR204: 1, AR266: 1, AR248: 1, AR183: 1, AR053: 1, AR163: 1, AR282: 1, AR277: 1, AR285: 1, AR193: 1, AR257: 1, AR281: 1, AR270: 1, AR310: 1, AR274: 1, AR222: 1, AR205: 1, AR311: 1, AR271: 1 L0749: 11, L0766: 7, L0803: 5, L0740: 5, L0805: 4, L0438: 4, L0779: 4, S0192: 4, S0002: 3, L0792: 3, H0521: 3, L0755: 3, L0758: 3, S0212: 2, S0442: 2, S0354: 2, S0358: 2, H0574: 2, S0346: 2, H0050: 2, H0674: 2, H0038: 2, H0494: 2, L0770: 2, L0806: 2, H0539: 2, L0743: 2, L0748: 2, L0439: 2, L0754: 2, H0222: 1, H0685: 1, H0657: 1, S0418: 1, S0420: 1, S0356: 1, H0441: 1, H0586: 1, H0427: 1, H0042: 1, H0575: 1, H0004: 1, S0049: 1, H0457: 1, L0471: 1, S0003: 1, H0252: 1, H0032: 1, H0616: 1, H0551: 1, H0272: 1, S0352: 1, S0450: 1, S0440: 1, S0426: 1, L0769: 1, L0639: 1, L0637: 1, L0761: 1, L0764: 1, L0774: 1, L0776: 1, L0807:		
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1817	HOGAB51	825278	1827	242 - 349	4424			1, L0527: 1, L0518: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0374: 1, H0519: 1, H0435: 1, H0648: 1, L0356: 1, S0392: 1, S0206: 1, L0744: 1, L0750: 1, L0756: 1, L0752: 1, L0757: 1, L0759: 1, L0591: 1, L0608: 1, S0026: 1, S0242: 1, S0276: 1, H0423: 1 and S0412: 1. L0748: 3, L0764: 2, H0583: 1, H0538: 1, L0598: 1, L0659: 1, H0519: 1, H0435: 1 and H0710: 1.		
1818	HOGAH40	790978	1828	1339 - 1416	4425			L0740: 10, L0748: 9, L0747: 5, H0412: 4, H0494: 4, H0547: 4, L0744: 4, L0731: 4, H0657: 3, H0341: 3, L0163: 3, H0266: 3, H0529: 3, L0666: 3, L0352: 3, S0126: 3, H0659: 3, H0539: 3, L0752: 3, L0593: 3, H0556: 2, H0484: 2, S0420: 2, H0599: 2, H0575: 2, L0105: 2, H0014: 2, T0042: 2, L0772: 2, L0766: 2, L0775: 2, L0776: 2, L0438: 2, H0519: 2, H0435: 2, L0749: 2, L0750: 2, L0779: 2, L0757: 2, L0758: 2, L0596: 2, L0595: 2, H0136: 2, H0542: 2, H0543: 2, H0624: 1, H0170: 1, H0265: 1, S0040: 1, L0002: 1, S0116: 1, H0662: 1, H0125: 1, S0358: 1, H0431: 1, H0592: 1, H0485: 1, H0013: 1, H0156: 1, H0036: 1, H0004: 1, H0052: 1, H0263: 1, H0546: 1, H0545: 1, H0041: 1, H0050: 1, H0375: 1, S0214: 1, H0039: 1, H0032: 1, S0364: 1, H0090: 1, H0040: 1, H0551: 1, H0560: 1, H0646: 1, S0426: 1, L0770: 1, L0769: 1, L0796: 1		7

1819	HOGAP06	823364	1829	225 - 338	4426	Ser-21 to Phe-31.	I, L0646: 1, L0641: 1, L0771: 1, L0649: 1, L0774: 1, L0375: 1, L0654: 1, L0658: 1, L0532: 1, L0663: 1, S0216: 1, H0144: 1, S0374: 1, H0670: 1, S0330: 1, S0152: 1, H0521: 1, S0027: 1, S0032: 1, L0439: 1, L0751: 1, L0755: 1, L0759: 1, S0031: 1, S0011: 1, H0665: 1 and H0423: 1.		
1820	HOGAR36	834684	1830	205 - 285	4427		H0435: 1 and H0445: 1. AR060: 2, AR316: 2 L0743: 2, L0717: 1, L0657: 1, L0659: 1 and H0435: 1.		
1821	HOGAR71	722242	1831	87 - 722	4428	Arg-106 to Lys-114, Pro-187 to Gly-194, Ala-197 to Val-211.	AR039: 40, AR205: 39, AR202: 39, AR194: 39, AR206: 37, AR246: 35, AR089: 30, AR243: 28, AR241: 27, AR198: 26, AR281: 24, AR204: 24, AR244: 24, AR060: 22, AR316: 22, AR263: 20, AR315: 20, AR273: 19, AR271: 19, AR192: 19, AR280: 18, AR265: 18, AR310: 18, AR282: 18, AR275: 15, AR283: 15, AR314: 15, AR299: 15, AR277: 15, AR295: 14, AR033: 14, AR240: 14, AR096: 14, AR213: 14, AR284: 14, AR055: 13, AR053: 13, AR309: 12, AR292: 12, AR104: 12, AR289: 12, AR266: 12, AR247: 12, AR177: 11, AR285: 11, AR312: 11, AR052: 10, AR286: 10, AR300: 10, AR274: 10, AR291: 10, AR270: 10,	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777



1822	HOGCC26	834792	1832	713 - 772	4429					H0494: 1, H0130: 1, L0772: 1, L0646: 1, L0374: 1, L0764: 1, L0773: 1, L0648: 1, L0653: 1, L0657: 1, L0383: 1, L0519: 1, L0791: 1, L0792: 1, L0793: 1, L0663: 1, H0435: 1, H0659: 1, H0670: 1, H0672: 1, S0378: 1, S0380: 1, H0696: 1, S0404: 1, L0747: 1, L0777: 1, L0759: 1, H0707: 1, S0434: 1 and L0603: 1.		2p23.3	176830, 176830, 182601, 229800, 602134
										AR225: 9, AR060: 6, AR089: 6, AR282: 4, AR316: 4, AR215: 3, AR222: 3, AR243: 3, AR168: 2, AR217: 2, AR286: 2, AR246: 2, AR263: 2, AR293: 2, AR308: 2, AR205: 2, AR300: 2, AR271: 2, AR229: 2, AR240: 1, AR312: 1, AR166: 1, AR311: 1, AR247: 1, AR185: 1, AR039: 1, AR193: 1 L0740: 6, L0769: 5, L0439: 5, L0777: 5, L0362: 5, L0438: 4, L0754: 4, L0766: 3, H0657: 2, H0037: 2, L0521: 2, L0794: 2, L0776: 2, L0663: 2, L0749: 2, L0588: 2, L0599: 2, H0170: 1, S0114: 1, S0354: 1, H0411: 1, H0370: 1, H0587: 1, H0013: 1, H0599: 1, H0050: 1, H0615: 1, H0622: 1, H0553: 1, H0032: 1, H0673: 1, S0036: 1, H0063: 1, T0067: 1, H0264: 1, H0059: 1, H0494: 1, L0369: 1, L0770: 1, L0637: 1, L0764: 1, L0650: 1, L0653: 1, L0657: 1, L0647: 1.			



1823	HOGCD78	610217	1833	151 - 342	4430	Glu-35 to Glu-50.	1, L0664: 1, L0665: 1, S0374: 1, H0520: 1, H0547: 1, H0435: 1, H0648: 1, L0602: 1, H0696: 1, L0779: 1, L0731: 1, L0758: 1, H0444: 1, L0591: 1, L0592: 1, L0595: 1, H0653: 1, S0276: 1, H0542: 1, H0543: 1, H0423: 1, S0412: 1 and S0424: 1. H0435: 1			
1824	HOGCK03	847427	1834	386 - 469	4431	Pro-2 to Gly-8, Ser-15 to Asp-21.	AR060: 2, AR316: 2, AR089: 2 H0271: 11, H0179: 4, H0295: 3, H0559: 3, H0436: 3, H0661: 2, S0278: 2, S0428: 2, L0748: 2, H0542: 2, H0171: 1, H0341: 1, H0458: 1, S0444: 1, S0360: 1, H0497: 1, L0021: 1, H0575: 1, H0618: 1, H0318: 1, H0581: 1, H0545: 1, H0050: 1, H0266: 1, H0416: 1, H0687: 1, H0553: 1, H0124: 1, H0090: 1, H0634: 1, H0551: 1, H0059: 1, H0561: 1, S0144: 1, L0667: 1, L0662: 1, L0498: 1, L0774: 1, L0775: 1, L0806: 1, L0809: 1, L0666: 1, L0663: 1, L0664: 1, S0052: 1, S0216: 1, H0435: 1, H0648: 1, H0521: 1, L0731: 1, H0668: 1 and H0423: 1.			
1825	HOGCL01	846353	1835	167 - 817	4432	Pro-17 to Met-23, Ala-30 to Trp-38, Ile-49 to Trp-54, Lys-68 to Gly-74, Thr-93 to Gly-99, Met-126 to Glu-132, Gly-173 to Ser-178, Lys-205 to Tyr-214.	AR291: 21, AR283: 16, AR199: 15, AR255: 12, AR245: 12, AR287: 11, AR288: 11, AR285: 11, AR165: 11, AR296: 11, AR295: 10, AR164: 10, AR266: 10, AR297: 10, AR214: 10, AR166: 10, AR289: 9, AR161: 9, AR162: 9, AR231: 9, AR246: 9, AR163: 9,	1q21-q22	104770, 107670, 110700, 135940, 145001, 146790, 152445, 152445, 159001, 159440, 159440, 159440, 174000, 179755, 182860, 182860, 182860, 186780, 191030, 191315, 230800, 230800.	

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1826	HOHBB36	847428	1836	283 - 327	4433		1, S0434: 1, L0605: 1, L0361: 1, S0192: 1, S0194: 1, H0543: 1, H0423: 1, S0424: 1 and H0506: 1. S0356: 4, L0748: 3, L0747: 3, S0212: 2, H0013: 2, S0214: 2, L0800: 2, L0750: 2, S0194: 2, H0638: 1, S0420: 1, S0376: 1, S0132: 1, H0393: 1, H0587: 1, T0114: 1, H0575: 1, L0563: 1, H0251: 1, H0023: 1, H0024: 1, H0355: 1, S0250: 1, S0022: 1, H0039: 1, L0455: 1, H0316: 1, H0090: 1, H0591: 1, H0551: 1, H0623: 1, H0494: 1, H0538: 1, L0369: 1, L0763: 1, L0764: 1, L0768: 1, L0794: 1, L0659: 1, L0529: 1, L0792: 1, S0126: 1, H0435: 1, S0152: 1, H0522: 1, S0146: 1, S3014: 1, L0751: 1, L0777: 1, S0011: 1, S0192: 1, S0276: 1 and S0042: 1. S0250: 2, S0116: 1, S0001: 1, H0580: 1, S0007: 1, H0549: 1, H0575: 1, S0051: 1, H0264: 1, S0386: 1, L0761: 1, H0547: 1, H0593: 1, H0521: 1, S0206: 1, L0749: 1 and S0242: 1. L0766: 6, L0747: 5, S0408: 4, L0748: 4, L0663: 3, L0758: 3, H0556: 2, H0637: 2, H0486: 2, H0581: 2, H0052: 2, H0530: 2, H0560: 2, H0641: 2, L0764: 2, L0783: 2, S0328: 2, L0751: 2, L0592: 2, H0543: 2, H0422: 2, H0650: 1, H0656: 1, H0663: 1, H0638: 1, S0418: 1, S0420: 1, S0356: 1, S0376: 1, S0132: 1, S6026: 1, S0278: 1, S0222: 1, H0586: 1, H0632: 1, H0069:	2q12-q34	100730, 118800, 123660, 129490, 135600, 157655, 167415, 176947, 186860, 201460, 205100, 262000, 601277, 601318
1827	HOHBC57	813392	1837	891 - 1046	4434	Gly-4 to Gly-10.			
1828	HOHBO66	853375	1838	338 - 403	4435				

1829	HOHBZ10	836519	1839	150 - 308	4436			1, H0427: 1, T0082: 1, H0457: 1, H0083: 1, H0510: 1, H0188: 1, L0138: 1, S0250: 1, H0644: 1, L0143: 1, H0068: 1, H0551: 1, T0041: 1, L0769: 1, L0761: 1, L0800: 1, L0644: 1, L0767: 1, L0768: 1, L0655: 1, L0659: 1, L0368: 1, H0144: 1, H0702: 1, H0547: 1, H0519: 1, H0711: 1, H0690: 1, H0435: 1, H0670: 1, S0012: 1, L0755: 1, L0731: 1, S0031: 1, L0596: 1, H0653: 1 and H0506: 1.			
								AR282: 3, AR204: 3, AR241: 3, AR244: 3, AR183: 3, AR246: 2, AR247: 2, AR053: 2, AR229: 2, AR184: 2, AR318: 2, AR206: 2, AR253: 2, AR310: 2, AR277: 2, AR227: 1, AR052: 1, AR312: 1, AR285: 1, AR267: 1, AR205: 1, AR213: 1, AR268: 1, AR096: 1, AR231: 1 H0628: 3, S0040: 1, H0024: 1, S0250: 1, H0412: 1, H0494: 1 and H0658: 1.	8p21	152760, 180100, 185430, 602629	
1830	HOHCH71	823101	1840	333 - 449	4437			L0439: 17, L0754: 9, L0748: 7, L0779: 6, L0662: 5, L0740: 5, L0731: 5, L0766: 4, S0007: 3, L0805: 3, L0666: 3, H0144: 3, L0438: 3, L0755: 3, H0170: 2, S0376: 2, H0013: 2, H0575: 2, H0036: 2, H0251: 2, H0598: 2, L0598: 2, L0642: 2, L0648: 2, L0804: 2, L0518: 2, S0374: 2, L0747: 2, L0757: 2, L0758: 2, L0605: 2, L0608: 2, L0595: 2			

									2, S0026: 2, H0624: 1, L0002: 1, H0341: 1, S0212: 1, H0663: 1, S0420: 1, S0356: 1, S0354: 1, H0580: 1, H0645: 1, H0587: 1, H0497: 1, H0632: 1, H0042: 1, H0590: 1, H0596: 1, H0046: 1, H0050: 1, L0471: 1, H0014: 1, T0010: 1, S0250: 1, S0003: 1, H0428: 1, L0483: 1, H0031: 1, H0644: 1, H0212: 1, H0316: 1, H0040: 1, H0412: 1, H0561: 1, H0509: 1, S0208: 1, S0426: 1, UNKWN: 1, L0770: 1, L0761: 1, L0771: 1, L0773: 1, L0363: 1, L0768: 1, L0794: 1, L0649: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0528: 1, L0788: 1, L0789: 1, L0792: 1, L0532: 1, L0663: 1, L0665: 1, L0352: 1, H0520: 1, H0547: 1, H0518: 1, S0152: 1, H0436: 1, L0751: 1, L0749: 1, L0777: 1, L0780: 1, L0752: 1, L0759: 1, H0445: 1, H0595: 1, H0667: 1 and H0423: 1.				
1831	HOHEB48	800629	1841	126 - 197	4438	Pro-16 to Lys-23.	AR184: 3, AR182: 3, AR248: 2, AR246: 2, AR290: 2, AR096: 2, AR213: 1, AR282: 1, AR312: 1, AR267: 1, AR270: 1, AR277: 1 S0250: 3 and L0748: 1.						
1832	HONAH67	821419	1842	18 - 119	4439		H0665: 2, S0438: 1, L0768: 1, L0794: 1, L0809: 1, L0789: 1, T0068: 1 and H0555: 1.						
1833	HOOAC84	604043	1843	84 - 179	4440		H0486: 1, H0028: 1 and S0386: 1.						
1834	HOPBP13	825243	1844	295 - 426	4441	Ala-17 to Ala-22.	AR089: 7, AR316: 6, AR060: 6 H0288: 1						

1835	HOQBG21	822863	1845	189 - 419	4442		AR060: 4, AR316: 4, AR089: 3 L0791: 2, L0750: 2, L0752: 2, S0212: 1, H0663: 1, S0358: 1, S0280: 1, H0421: 1, H0566: 1, H0050: 1, H0290: 1, H0688: 1, H0553: 1, H0644: 1, S0374: 1, S0126: 1, H0521: 1, H0555: 1, H0436: 1, H0445: 1, H0595: 1, S0436: 1, S0242: 1, S0276: 1 and H0423: 1.		
1836	HORBI80	877660	1846	58 - 192	4443		S0007: 7, L0751: 6, L0665: 5, L0439: 5, L0745: 5, H0046: 4, H0542: 4, L0794: 3, L0749: 3, H0556: 2, S0354: 2, S0358: 2, H0599: 2, H0036: 2, H0617: 2, H0032: 2, H0551: 2, L0772: 2, L0766: 2, L0438: 2, H0519: 2, H0539: 2, H0521: 2, S3014: 2, L0748: 2, L0747: 2, L0780: 2, L0731: 2, L0758: 2, L0595: 2, H0265: 1, T0002: 1, H0294: 1, S0116: 1, H0341: 1, S0418: 1, S0444: 1, H0580: 1, S0046: 1, H0549: 1, H0431: 1, T0040: 1, T0060: 1, T0114: 1, H0013: 1, H0156: 1, H0575: 1, H0318: 1, H0544: 1, H0457: 1, H0178: 1, H0014: 1, S0388: 1, H0083: 1, H0288: 1, H0290: 1, H0286: 1, H0039: 1, L0055: 1, S0036: 1, H0135: 1, H0087: 1, H0056: 1, H0059: 1, T0042: 1, S0464: 1, S0150: 1, S0144: 1, S0142: 1, L0762: 1, L0372: 1, L0645: 1, L0764: 1, L0662: 1, L0775: 1, L0651: 1, L0806: 1, L0655: 1, L0666: 1, L0663: 1, H0547: 1, S0126: 1, H0689: 1, S0380: 1, H0522: 1, S0432: 1, S0027:	11q12-q13.1	106100, 133780, 147050, 259700, 259770, 600045, 601650, 601884

1837	HORBL77	852099	1847	25 - 219	4444	Pro-18 to Trp-26, Arg-28 to Thr-35, Lys-56 to Gly-62.	1, L0740: 1, L0756: 1, L0779: 1, L0757: 1, L0596: 1, L0592: 1 and H0543: 1. H0135: 4, S0222: 3, H0559: 3, L0794: 3, L0758: 3, H0423: 3, H0341: 2, H0292: 2, H0625: 2, S0002: 2, L0662: 2, L0789: 2, L0665: 2, H0521: 2, L0744: 2, H0556: 1, H0159: 1, H0295: 1, H0306: 1, H0449: 1, S0360: 1, H0431: 1, H0370: 1, H0455: 1, H0333: 1, H0257: 1, H0196: 1, H0052: 1, H0309: 1, H0263: 1, H0620: 1, H0024: 1, H0266: 1, H0708: 1, S0036: 1, L0564: 1, H0494: 1, H0641: 1, L0769: 1, L0796: 1, L0363: 1, L0655: 1, L0657: 1, L0783: 1, L0791: 1, L0666: 1, H0144: 1, L0438: 1, H0670: 1, H0539: 1, S0406: 1, S0028: 1, L0751: 1, L0731: 1 and L0759: 1.			
1838	HOSBX14	597456	1848	173 - 352	4445		S0003: 1, S0142: 1, H0648: 1 and H0521: 1.			
1839	HOSCZ41	665525	1849	188 - 340	4446	His-35 to Gln-43.	AR060: 5, AR316: 3, AR089: 2 S0003: 8, L0650: 2, H0170: 1, H0556: 1, S0222: 1, S0214: 1, L0766: 1, L0352: 1, H0365: 1, L0747: 1, L0777: 1 and H0423: 1.			
1840	HOSEM81	846354	1850	227 - 427	4447		AR052: 12, AR194: 9, AR212: 9, AR309: 8, AR197: 8, AR165: 8, AR161: 8, AR162: 7, AR213: 7, AR163: 7, AR164: 7, AR166: 7, AR186: 7, AR244: 7, AR308: 7, AR312: 7, AR254: 6, AR202: 6,	lp36.l3-p35.3	115665, 118210, 120550, 120570, 120575, 121800, 130500, 133200, 167410, 171760, 171760, 172430, 185470, 230350, 255800, 600975, 602771	



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1841	HOSE083	847083	1851	50 - 253	4448		L0599: 4, H0402: 2, H0441: 2, S0126: 2, H0394: 1, H0395: 1, S0114: 1, H0306: 1, H0497: 1, T0048: 1, H0596: 1, S0214: 1, H0031: 1, H0087: 1, T0069: 1, H0342: 1, S0344: 1, L0743: 1, L0748: 1, L0740: 1, L0754: 1, L0594: 1, L0361: 1 and H0352: 1.		
1842	HOSFR35	845994	1852	81 - 338	4449		S0474: 70, L0777: 4, H0575: 2, H0413: 2, L0771: 2, H0518: 2, L0754: 2, L0756: 2, L0779: 2, H0341: 1, H0638: 1, S0418: 1, S0354: 1, S0358: 1, S0360: 1, H0580: 1, H0497: 1, L0021: 1, H0581: 1, S0214: 1, H0038: 1, H0649: 1, S0422: 1, H0695: 1, H0529: 1, L0770: 1, L0804: 1, L0805: 1, L0530: 1, L0663: 1, H0520: 1, S0028: 1, L0750: 1, H0445: 1, S0434: 1, S0026: 1, H0423: 1 and H0422: 1.		
1843	HOUAZ32	600368	1853	214 - 261	4450		L0748: 7, L0777: 6, L0731: 6, L0766: 5, L0758: 5, L0803: 3, L0438: 3, L0439: 3, H0068: 2, H0561: 2, L0662: 2, H0648: 2, L0740: 2, L0754: 2, L0756: 2, L0779: 2, L0757: 2, L0759: 2, L0592: 2, H0556: 1, S0040: 1, S0444: 1, H0580: 1, H0208: 1, S0300: 1, H0331: 1, H0486: 1, H0013: 1, H0069: 1, S0010: 1, S0003: 1, H0634: 1, H0059: 1, H0130: 1, S0144: 1, L0763: 1, L0775: 1, L0659: 1, L0783: 1, L0809: 1, L0790: 1, L0666: 1, L0665: 1, H0547: 1, H0690: 1, H0684: 1, H0435: 1, S0206: 1, L0745: 1, L0747: 1, L0750: 1, L0780: 1, L0755: 1, L0485: 1.		

1844	HOUBC29	872565	1854	134 - 160	4451			1 and S0026: 1. L0748: 2, L0745: 2, S0040: 1, H0637: 1, H0580: 1, H0553: 1 and L0761: 1.			
1845	HOUBG39	601696	1855	62 - 142	4452			H0255: 2, S0040: 1 and H0251: 1.			
1846	HOUCD12	605006	1856	514 - 639	4453		Lys-20 to Lys-42.	S0040: 1			
1847	HOUDB17	603417	1857	158 - 229	4454		Glu-17 to Arg-22.	S0040: 1			
1848	HOUDX40	603442	1858	360 - 398	4455			L0761: 3, S0040: 1 and H0518: 1.	12q12-12q14.3	181430, 600194, 600231, 600808, 601284, 601769, 601769, 602116	
1849	HOUEF84	862051	1859	83 - 181	4456			AR089: 3, AR316: 3, AR060: 2 L0766: 5, S0051: 3, H0624: 2, H0574: 2, H0644: 2, H0032: 2, L0655: 2, L0657: 2, H0521: 2, H0436: 2, H0423: 2, H0422: 2, S0040: 1, H0657: 1, S0282: 1, H0346: 1, S0376: 1, H0580: 1, L0717: 1, S6016: 1, S0222: 1, H0486: 1, T0114: 1, H0042: 1, S0474: 1, H0581: 1, H0052: 1, H0563: 1, H0266: 1, S0003: 1, H0063: 1, H0551: 1, H0412: 1, H0413: 1, L0475: 1, H0560: 1, S0294: 1, H0529: 1, L0763: 1, L0646: 1, L0641: 1, L0662: 1, L0803: 1, L0804: 1, L0659: 1, L0666: 1, L0663: 1, H0144: 1, H0660: 1, H0539: 1, H0696: 1, L0740: 1, L0745: 1, L0588: 1, L0592: 1, S0412: 1 and S0424: 1.	12		
1850	HOUEJ43	658713	1860	157 - 201	4457			AR244: 6, AR060: 4, AR194: 4, AR274: 4, AR293: 3, AR284: 3, AR232: 3, AR298: 3, AR289: 3, AR316: 2,			

1851	HOUHS36	862052	1861	295 - 507	4458			AR089: 2, AR226: 2, AR231: 2, AR310: 2, AR291: 2, AR286: 2, AR192: 2, AR294: 2, AR096: 2, AR052: 2, AR312: 1, AR233: 1, AR247: 1, AR295: 1, AR055: 1, AR033: 1, AR275: 1, AR183: 1, AR313: 1, AR270: 1, AR234: 1, AR299: 1 L0758: 3 and S0040: 1.			
1852	HOUHQ36	793750	1862	376 - 537	4459	Arg-46 to Arg-53.		AR060: 5, AR316: 4, AR089: 2 S0040: 1			
1853	HOUIG68	793749	1863	1509 - 1565	4460			AR060: 6, AR316: 5, AR089: 3 L0601: 2 and S0342: 1.			
								AR089: 5, AR316: 5, AR060: 4 L0766: 6, L0659: 6, L0731: 5, H0529: 4, L0751: 4, L0745: 4, L0805: 3, S0152: 3, H0521: 3, H0657: 2, H0457: 2, H0551: 2, L0638: 2, L0637: 2, L0527: 2, H0144: 2, L0756: 2, L0759: 2, H0343: 2, H0542: 2, H0624: 1, H0171: 1, H0556: 1, S0342: 1, S0212: 1, H0306: 1, H0619: 1, H0351: 1, L0586: 1, H0013: 1, H0635: 1, H0156: 1, H0036: 1, H0327: 1, H0563: 1, H0373: 1, H0615: 1, H0553: 1, H0316: 1, H0591: 1, H0063: 1, H0477: 1, H0412: 1, H0100: 1, T0041: 1, H0560: 1, H0641: 1, S0422: 1, S0002: 1, L0763: 1, L0796: 1, L0646: 1, L0662: 1, L0363: 1, L0804: 1, L0655: 1, L0635: 1, L0791: 1, L0792: 1, L0664:	4q13.3	104500, 125490	

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1854	HOUIG92	793764	1864	343 - 528	4461	<p>1, H0520: 1, H0547: 1, H0670: 1, L0750: 1, L0780: 1, H0445: 1, L0591: 1, L0599: 1, S0026: 1, H0543: 1, H0422: 1 and S0446: 1.</p> <p>AR089: 12, AR316: 11, AR060: 10  L0731: 11, L0747: 10,  L0754: 9, L0439: 8, L0740: 8,  L0748: 7, L0742: 6, L0752: 6,  L0758: 6, L0809: 5, H0436: 5,  L0749: 5, L0766: 4, L0789: 4,  L0666: 4, H0144: 4, L0751: 4,  S0444: 3, H0013: 3, H0090: 3,  L0744: 3, L0750: 3, L0755: 3,  L0757: 3, H0716: 2, L0103: 2,  H0411: 2, H0369: 2, H0599: 2,  H0575: 2, L0105: 2, H0581: 2,  H0545: 2, L0456: 2, H0591: 2,  H0412: 2, H0413: 2, S0440: 2,  L0598: 2, L0769: 2, L0638: 2,  L0645: 2, L0794: 2, L0774: 2,  L0659: 2, L0528: 2, L0647: 2,  L0438: 2, H0696: 2, L0759: 2,  S0308: 2, L0588: 2, S0342: 1,  H0713: 1, H0717: 1, S0134: 1,  L0002: 1, H0656: 1, L0425: 1,  S0116: 1, S0418: 1, S0358: 1,  S0376: 1, S0360: 1, H0675: 1,  H0637: 1, S0476: 1, L0717: 1,  H0437: 1, S0222: 1, H0069: 1,  S0280: 1, T0082: 1, H0004: 1,  S0010: 1, S0346: 1, H0309: 1,  H0050: 1, H0014: 1, S0051: 1,  S6028: 1, H0266: 1, S0250: 1,  H0553: 1, H0163: 1, H0038: 1,  H0551: 1, H0264: 1, H0623: 1,  T0042: 1, S0438: 1, L0520: 1,  L0770: 1, L0637: 1, L0761: 1,  L0646: 1, L0773: 1, L0662: 1,</p>					
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1855	HOVAD93	821333	1865	114 - 200	4462	Asn-17 to Ser-25.	L0649: 1, L0804: 1, L0806: 1, L0805: 1, L0776: 1, L0606: 1, L0656: 1, L0352: 1, H0539: 1, S0378: 1, H0710: 1, H0521: 1, H0555: 1, S014: 1, S0028: 1, L0745: 1, L0756: 1, L0777: 1, S0434: 1, S0436: 1, L0599: 1, S0194: 1, S0276: 1 and H0423: 1.		
1856	HOVAE10	604932	1866	228 - 308	4463		AR089: 9, AR316: 7, AR060: 6 H0428: 1 L0599: 2, S0358: 1, H0587: 1, H0251: 1, H0428: 1, L0770: 1, L0794: 1, L0806: 1 and L0779: 1.		
1857	HOVAE36	707399	1867	49 - 87	4464		H0428: 2		
1858	HOVAE82	826447	1868	154 - 267	4465	Arg-16 to Lys-21.	H0428: 1 and S0344: 1.		
1859	HOVAJ68	741098	1869	129 - 215	4466		H0428: 1		
1860	HOVAW46	892162	1870	220 - 270	4467		H0428: 1 and H0135: 1.		
1861	HOVBB19	843768	1871	379 - 477	4468		H0428: 2, H0659: 1 and S0242: 1.		
1862	HOVBD31	596902	1872	149 - 238	4469		L0439: 7, L0794: 4, H0539: 4, H0670: 3, L0438: 2, H0170: 1, S6024: 1, H0662: 1, L0005: 1, H0575: 1, H0194: 1, H0545: 1, S0050: 1, T0010: 1, S6028: 1, H0428: 1, H0509: 1, L0768: 1, L0805: 1, L0527: 1, L0759: 1 and L0684: 1.		
1863	HOVBE81	862054	1873	172 - 270	4470		H0428: 1	6q21	120110, 121014, 601666, 602772
1864	HOVBI16	581097	1874	269 - 544	4471	Pro-10 to Gly-18, Pro-53 to Asp-58.	H0265: 27, L0751: 24, H0617: 15, H0556: 13, H0135: 13, H0046: 12, L0439: 10, H0521: 9, H0253: 8, L0740: 8, H0124: 7, H0087: 7, L0747: 7, S0420: 6, S0442: 6, H0052: 6, H0620: 6, H0494: 6, L0663: 6,	5	

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1865	HOVBS68	596823	1875	20 - 142	4472					H0305: 1, H0449: 1, L0005: 1, S0376: 1, S0444: 1, S0045: 1, S0132: 1, H0411: 1, H0261: 1, H0550: 1, H0441: 1, H0587: 1, H0497: 1, H0642: 1, H0486: 1, L0021: 1, H0706: 1, S0182: 1, H0421: 1, S0049: 1, H0327: 1, H0150: 1, H0570: 1, H0051: 1, S0388: 1, H0188: 1, H0687: 1, H0292: 1, H0284: 1, H0039: 1, H0622: 1, H0182: 1, H0606: 1, S0366: 1, H0163: 1, H0616: 1, H0488: 1, H0413: 1, H0059: 1, L0351: 1, L0564: 1, H0202: 1, T0042: 1, H0280: 1, H0334: 1, H0625: 1, S0448: 1, S0440: 1, H0646: 1, S0422: 1, L0369: 1, L5575: 1, L0641: 1, L0643: 1, L0645: 1, L0771: 1, L0626: 1, L0363: 1, L0650: 1, L0375: 1, L0651: 1, L0654: 1, L0776: 1, L0655: 1, L0636: 1, L0782: 1, L0790: 1, H0697: 1, H0723: 1, L0438: 1, H0519: 1, H0670: 1, S0380: 1, S0350: 1, H0134: 1, S0404: 1, H0555: 1, H0631: 1, S0037: 1, S0032: 1, L0745: 1, L0750: 1, L0752: 1, L0731: 1, L0759: 1, H0444: 1, H0707: 1, S0436: 1, L0584: 1, L0597: 1, L0589: 1, L0608: 1, S0026: 1, H0216: 1, H0422: 1 and H0506: 1.		
1866	HOVCC73	610041	1876	126 - 260	4473	Gly-39 to His-44.				L0779: 2, H0445: 2, H0392: 1, H0373: 1, H0428: 1, H0538: 1, L0761: 1, L0518: 1, L0519: 1 and L0780: 1.		
1867	HOVCF30	638142	1877	169 - 234	4474	Arg-4 to Gln-15.				S0114: 1 and H0428: 1.		
										L0803: 2, H0581: 1, H0428: 1, H0625: 1, S0422: 1, L0769: 10pter-q26.12		

1868	HOVCJ71	846487	1878	147 - 287	4475	Ser-33 to Cys-43.	1, L0771: 1, L0791: 1, H0684: 1, H0659: 1, H0522: 1, L0748: 1 and L0740: 1.		
1869	HOVCN53	604944	1879	128 - 238	4476		AR060: 543, AR316: 498, AR089: 454 H0428: 1		
1870	HOVCO53	504632	1880	65 - 208	4477	Met-1 to Trp-7, Ser-41 to Glu-47.	H0428: 1 and L0372: 1.		
1871	HPASF94	813610	1881	41 - 154	4478	Glu-17 to Arg-24.	H0428: 1		
							AR235: 5, AR266: 5, AR176: 4, AR271: 4, AR196: 4, AR162: 4, AR163: 4, AR161: 4, AR212: 4, AR240: 3, AR193: 3, AR205: 3, AR096: 3, AR254: 3, AR165: 3, AR245: 3, AR164: 3, AR291: 3, AR197: 3, AR166: 3, AR270: 3, AR264: 3, AR170: 3, AR288: 3, AR183: 3, AR201: 3, AR213: 3, AR199: 3, AR272: 3, AR312: 3, AR263: 3, AR255: 3, AR309: 3, AR195: 3, AR269: 3, AR089: 3, AR215: 3, AR053: 3, AR203: 3, AR168: 3, AR229: 3, AR297: 3, AR188: 3, AR228: 3, AR175: 3, AR236: 3, AR257: 2, AR294: 2, AR174: 2, AR181: 2, AR296: 2, AR191: 2, AR285: 2, AR293: 2, AR262: 2, AR182: 2, AR287: 2, AR268: 2, AR250: 2, AR185: 2, AR247: 2, AR295: 2,		

1872	HPBCG26	844660	1882	74 - 169	4479			AR177: 2, AR316: 2, AR233: 2, AR179: 2, AR033: 2, AR234: 2, AR039: 2, AR200: 2, AR289: 2, AR061: 2, AR173: 2, AR282: 2, AR299: 2, AR313: 2, AR214: 2, AR300: 2, AR237: 2, AR290: 2, AR060: 2, AR189: 2, AR178: 2, AR239: 2, AR277: 2, AR207: 2, AR198: 2, AR231: 2, AR261: 2, AR227: 2, AR104: 2, AR055: 2, AR171: 2, AR222: 2, AR190: 2, AR258: 2, AR260: 2, AR224: 2, AR218: 2, AR275: 2, AR232: 2, AR267: 1, AR230: 1, AR243: 1, AR219: 1, AR286: 1, AR226: 1, AR238: 1, AR283: 1 L0764: 4, L0439: 4, H0424: 3, L0659: 3, H0150: 2, H0617: 2, L0666: 2, L0756: 2, L0779: 2, L0757: 2, H0543: 2, S0222: 1, H0492: 1, H0270: 1, H0036: 1, H0620: 1, H0023: 1, H0032: 1, H0212: 1, L0638: 1, L0761: 1, L0646: 1, L0662: 1, L0766: 1, L0655: 1, L0783: 1, L0809: 1, L0664: 1, L0438: 1, H0682: 1, H0436: 1, L0747: 1, L0777: 1, L0758: 1 and H0423: 1.		
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1873	HPBCT11	825226	1883	149 - 265	4480				1, H0175: 1, H0362: 1, H0486: 1, H0046: 1, H0355: 1, H0375: 1, S0250: 1, T0006: 1, H0553: 1, S0002: 1, H0144: 1, S0152: 1, H0521: 1, H0522: 1, H0555: 1, S0027: 1, L0743: 1, L0752: 1, L0757: 1, L0588: 1 and S0011: 1.		
1874	HPBDE33	853660	1884	257 - 1186	4481				T0006: 1 and H0038: 1. AR274: 224, AR273: 192, AR218: 144, AR271: 116, AR251: 114, AR240: 101, AR243: 101, AR313: 96, AR275: 95, AR309: 95, AR219: 95, AR263: 94, AR096: 90, AR310: 86, AR175: 84, AR312: 77, AR053: 76, AR265: 73, AR213: 71, AR247: 69, AR256: 64, AR052: 61, AR183: 61, AR266: 60, AR290: 58, AR177: 58, AR179: 57, AR244: 54, AR198: 54, AR089: 54, AR104: 52, AR316: 52, AR185: 52, AR282: 51, AR248: 51, AR292: 50, AR253: 50, AR241: 50, AR186: 49, AR285: 47, AR205: 47, AR299: 46, AR192: 46, AR267: 44, AR060: 44, AR249: 44, AR293: 42, AR291: 41, AR295: 40, AR284: 39, AR039: 38, AR289: 37, AR268: 37, AR259: 35, AR300: 35, AR182: 35, AR286: 35, AR184: 34, AR283: 34, AR296: 31, AR269: 31, AR294: 30,	4q13.3-q21.3	104500, 125490, 163890, 173910, 252500, 252500

1875	HPBDE33	897372	1885	1308 - 1385	4482		AR314: 30, AR206: 30, AR270: 30, AR258: 27, AR232: 27, AR055: 26, AR280: 25, AR226: 25, AR061: 25, AR231: 25, AR298: 25, AR237: 24, AR246: 23, AR277: 23, AR033: 22, AR238: 22, AR194: 21, AR229: 20, AR234: 20, AR315: 19, AR281: 17, AR204: 17, AR233: 14, AR202: 12, AR227: 12 S0358: 4, S0410: 4, L0759: 4, S0444: 3, H0599: 3, L0803: 3, L0774: 3, H0521: 3, S0354: 2, S0408: 2, H0674: 2, L0761: 2, L0764: 2, L0659: 2, L0809: 2, L0789: 2, L0438: 2, H0522: 2, S0434: 2, H0717: 1, H0638: 1, S0376: 1, H0580: 1, H0485: 1, H0013: 1, S0003: 1, T0006: 1, S0386: 1, S0440: 1, L0800: 1, L0662: 1, L0783: 1, L0790: 1, S0330: 1, H0696: 1, L0779: 1, L0777: 1, L0755: 1 and L0758: 1.	4q13.3-q21.3	104500, 125490, 163890, 173910, 252500, 252500
							AR274: 224, AR273: 192, AR218: 144, AR271: 116, AR251: 114, AR240: 101, AR243: 101, AR313: 96, AR275: 95, AR309: 95, AR219: 95, AR263: 94, AR096: 90, AR310: 86, AR175: 84, AR312: 77, AR053: 76, AR265: 73, AR213: 71, AR247: 69, AR256: 64, AR052: 61, AR183: 61, AR266: 60, AR290: 58, AR177: 58,		

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1876	HPBDF31	581082	1886	149 - 238	4483			1, S0386: 1, S0440: 1, L0800: 1, L0662: 1, L0783: 1, L0790: 1, S0330: 1, H0696: 1, L0779: 1, L0777: 1, L0755: 1 and L0758: 1. L0748: 10, L0794: 4, L0740: 4, L0766: 3, L0754: 3, H0657: 2, S0007: 2, H0070: 2, L0764: 2, L0665: 2, L0753: 2, L0731: 2, L0758: 2, H0624: 1, H0556: 1, H0600: 1, H0587: 1, H0643: 1, L0623: 1, H0013: 1, H0098: 1, S0010: 1, H0318: 1, H0374: 1, H0052: 1, H0251: 1, H0687: 1, H0328: 1, T0006: 1, L0456: 1, H0040: 1, H0264: 1, H0413: 1, L0065: 1, H0529: 1, L0770: 1, L0765: 1, L0768: 1, L0803: 1, L0775: 1, L0375: 1, L0789: 1, L0666: 1, S0374: 1, H0520: 1, H0682: 1, H0658: 1, S0330: 1, H0539: 1, H0576: 1, L0750: 1, L0777: 1, L0752: 1, L0759: 1, L0591: 1, L0594: 1, L0595: 1 and H0352: 1. H0421: 1, H0522: 1 and S0146: 1. H0421: 1, H0522: 1 and S0146: 1. AR202: 5, AR246: 5, AR186: 5, AR204: 4, AR312: 4, AR060: 4, AR182: 4, AR055: 3, AR206: 3, AR310: 3, AR061: 3, AR309: 3, AR052: 3, AR283: 3, AR299: 3, AR282: 3, AR289: 3, AR298: 3, AR296: 3, AR033: 3, AR293: 3, AR053: 3,	15q24	118485, 231680, 272800, 272800, 276700, 602685
1877	HPCAG17	757836	1887	214 - 309	4484			H0421: 1, H0522: 1 and S0146: 1.		
1878	HPCAG17	863943	1888	81 - 176	4485			H0421: 1, H0522: 1 and S0146: 1.		
1879	HPCAM02	877661	1889	265 - 375	4486			AR202: 5, AR246: 5, AR186: 5, AR204: 4, AR312: 4, AR060: 4, AR182: 4, AR055: 3, AR206: 3, AR310: 3, AR061: 3, AR309: 3, AR052: 3, AR283: 3, AR299: 3, AR282: 3, AR289: 3, AR298: 3, AR296: 3, AR033: 3, AR293: 3, AR053: 3,		

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1880	HPDDQ17	598716	1890	251 - 346	4487			L0439: 2, H0394: 1, T0023: 1 and L0438: 1.			
1881	HPDDQ28	566793	1891	166 - 384	4488	Asp-19 to Gly-24, Ser-52 to Thr-57.		T0023: 1 and S3014: 1.			
1882	HPDDT14	580867	1892	173 - 349	4489	Lys-53 to Lys-58.		L0754: 7, L0731: 4, S0046: 2, H0266: 2, L0439: 2, L0608: 2, L0362: 2, H0431: 1, T0040: 1, H0098: 1, T0110: 1, H0015: 1, T0010: 1, H0375: 1, T0023: 1, H0169: 1, H0090: 1, T0067: 1, S0152: 1, L0748: 1, L0740: 1, L0756: 1, L0593: 1 and S0026: 1.			
1883	HPEAA65	599378	1893	25 - 174	4490	Ile-28 to Ser-35.		H0556: 2, H0632: 1, H0165: 1 and L0748: 1.			



1884	HPEAG24	637097	1894	207 - 314	4491	Ser-15 to Ser-27.	AR089: 13, AR316: 13, AR060: 12 S0360: 3, L0764: 3, H0560: 2, L0766: 2, L0527: 2, L0663: 2, H0519: 2, H0696: 2, S0406: 2, L0740: 2, L0759: 2, S0011: 2, H0170: 1, H0556: 1, H0686: 1, S0342: 1, H0716: 1, H0663: 1, S0358: 1, S0408: 1, S0132: 1, L0717: 1, S0222: 1, H0592: 1, S0010: 1, H0318: 1, H0421: 1, S0049: 1, H0545: 1, L0471: 1, H0015: 1, S0388: 1, H0687: 1, S0003: 1, S0022: 1, H0328: 1, H0688: 1, H0165: 1, H0674: 1, H0591: 1, H0413: 1, L0065: 1, H0509: 1, H0647: 1, S0422: 1, S0002: 1, L0646: 1, L0521: 1, L0774: 1, L0775: 1, L0776: 1, L0655: 1, L0807: 1, L0656: 1, L0783: 1, L0664: 1, H0520: 1, H0682: 1, H0648: 1, H0539: 1, S0380: 1, H0521: 1, L0741: 1, L0439: 1, L0754: 1, L0752: 1, L0593: 1, L0601: 1, H0668: 1, S0026: 1 and S0424: 1.		
1885	HPEBA84	753957	1895	533 - 643	4492		AR060: 4, AR316: 3, AR089: 3 L0591: 2, S0420: 1, H0057: 1, H0166: 1, L0648: 1, L0518: 1, L0809: 1, L0519: 1, L0754: 1 and L0599: 1.		
1886	HPEBF91	638144	1896	189 - 293	4493		L0752: 7, L0439: 5, L0438: 2, S0356: 1, H0013: 1, H0042: 1, T0023: 1, H0166: 1, H0591: 1, L0803: 1, L0515: 1, L0659: 1, L0647: 1, L0789: 1, H0539: 1, L0731: 1 and H0352: 1.		
1887	HPEBI09	605010	1897	53 - 109	4494		AR060: 7, AR316: 5, AR089: 4		

									H0331: 1 and H0166: 1. AR060: 8, AR316: 7, AR089: 7 L0805: 5, L0750: 3, L0777: 3, L0803: 2, L0804: 2, H0520: 2, H0547: 2, L0744: 2, L0779: 2, L0752: 2, L0731: 2, S0282: 1, S0360: 1, H0411: 1, H0042: 1, H0581: 1, H0251: 1, H0596: 1, H0123: 1, H0620: 1, H0014: 1, H0051: 1, H0328: 1, H0553: 1, H0169: 1, S0422: 1, L0776: 1, L0791: 1, H0519: 1, H0521: 1, H0522: 1, L0356: 1, L0439: 1, L0756: 1, L0780: 1, L0753: 1 and L0759: 1.				
1888	HPFCJ75	774564	1898	1 - 33	4495								
1889	HPFCP75	581083	1899	78 - 173	4496								
1890	HPFDB66	829318	1900	973 - 1002	4497					10cen-q26.11			

1891	HPFDD28	824856	1901	391 - 402	4498		AR089: 33, AR316: 23, AR060: 14 H0169: 1 and L0779: 1.		
1892	HPFDI47	638164	1902	174 - 254	4499	Met-17 to Glu-24.	H0169: 2 and H0231: 1.		
1893	HPIAF35	747704	1903	140 - 160	4500		S0150: 1		
1894	HPIAK27	852658	1904	1088 - 1165	4501	Pro-20 to Ala-25.	AR089: 15, AR316: 11, AR060: 8 H0013: 7, L0754: 6, L0662: 5, H0144: 5, L0758: 4, L0759: 4, H0170: 3, H0556: 3, S0358: 3, H0244: 3, H0052: 3, S0440: 3, L0761: 3, L0803: 3, L0659: 3, L0731: 3, H0657: 2, H0663: 2, H0036: 2, H0032: 2, H0068: 2, H0163: 2, H0616: 2, L0772: 2, L0768: 2, L0794: 2, L0766: 2, L0789: 2, L0666: 2, H0670: 2, S0028: 2, L0750: 2, L0608: 2, H0624: 1, H0265: 1, H0713: 1, H0662: 1, H0638: 1, S0444: 1, S0046: 1, H0619: 1, H0645: 1, S0222: 1, H0257: 1, H0486: 1, H0618: 1, T0048: 1, H0596: 1, H0046: 1, H0050: 1, H0578: 1, H0014: 1, H0275: 1, H0266: 1, H0328: 1, H0031: 1, H0674: 1, H0038: 1, H0059: 1, H0560: 1, S0150: 1, L0369: 1, L0646: 1, L0764: 1, L0765: 1, L0773: 1, L0632: 1, L0776: 1, L0657: 1, L0656: 1, H0702: 1, S0374: 1, S0310: 1, H0520: 1, H0689: 1, H0659: 1, H0539: 1, S0378: 1, S0168: 1, S0406: 1, H0478: 1, L0744: 1, L0740: 1, L0749: 1, L0756: 1, S0436: 1, L0591: 1, S0026: 1, H0665: 1, H0543: 1, H0423: 1 and S0462: 1.	1p36.13-q24.1	115665, 120550, 120570, 120575, 130500, 133200, 167410, 172430, 600309, 600975
1895	HPIAL55	847429	1905	286 - 489	4502	Tyr-33 to Thr-39, Ser-46 to Cys-53.	AR060: 5, AR316: 4, AR089: 2		

1896	HPIAT18	877663	1906	74 - 190	4503		<p>S0444: 3, H0271: 3, L0764: 3, L0766: 3, L0748: 3, L0759: 3, S0408: 2, S0222: 2, H0370: 2, H0038: 2, L0761: 2, L0771: 2, L0662: 2, L0806: 2, L0805: 2, L0809: 2, S0152: 2, L0743: 2, L0740: 2, L0749: 2, L0750: 2, L0755: 2, L0758: 2, H0543: 2, S0420: 1, S0376: 1, H0645: 1, H0549: 1, H0550: 1, H0333: 1, H0331: 1, H0486: 1, H0618: 1, S0010: 1, H0318: 1, H0309: 1, H0544: 1, H0009: 1, H0416: 1, H0033: 1, H0401: 1, S0366: 1, H0040: 1, H0087: 1, H0551: 1, S0016: 1, S0352: 1, S0150: 1, S0422: 1, L0769: 1, L0646: 1, L0794: 1, L0804: 1, L0775: 1, L0659: 1, L0789: 1, L0663: 1, H0539: 1, H0436: 1, L0754: 1, L0731: 1, S0436: 1 and S0460: 1.</p>		
1896	HPIAT18	877663	1906	74 - 190	4503		<p>AR282: 4, AR252: 3, AR268: 3, AR169: 3, AR172: 2, AR221: 2, AR171: 2, AR168: 2, AR309: 2, AR217: 2, AR271: 2, AR039: 2, AR224: 2, AR225: 2, AR254: 2, AR215: 2, AR166: 2, AR242: 2, AR246: 1, AR178: 1, AR096: 1, AR222: 1, AR223: 1, AR089: 1, AR257: 1, AR165: 1, AR176: 1, AR311: 1, AR210: 1, AR164: 1, L0659: 7, L0777: 7, S0358: 6, H0622: 6, H0486: 5, S0360: 4, L0662: 4, H0013: 3, H0144: 1.</p>		

1897	HPIAZ52	801924	1907	149 - 253	4504	Thr-4 to His-10.	3, S0328: 3, L0751: 3, L0731: 3, H0624: 2, H0619: 2, H0328: 2, L0520: 2, L0764: 2, L0794: 2, L0747: 2, S0116: 1, S0356: 1, S0376: 1, H0431: 1, H0600: 1, H0632: 1, H0244: 1, H0599: 1, H0123: 1, H0050: 1, H0051: 1, S0250: 1, H0615: 1, H0688: 1, H0039: 1, H0163: 1, H0090: 1, H0591: 1, H0040: 1, H0102: 1, H0647: 1, H0646: 1, L0640: 1, L0763: 1, L0768: 1, L0649: 1, L0806: 1, L0793: 1, L0666: 1, H0690: 1, H0684: 1, H0658: 1, H0648: 1, L0779: 1, L0780: 1, L0759: 1 and S0011: 1.			
1898	HPIBA07	886191	1908	23 - 208	4505	Asn-54 to Thr-61.	S0150: 1 AR316: 4, AR089: 4, AR060: 4 L0754: 8, L0766: 6, S0022: 5, H0013: 3, H0641: 3, S0422: 3, L0439: 3, L0777: 3, H0050: 2, L0794: 2, L0649: 2, L0803: 2, L0438: 2, L0749: 2, L0779: 2, L0594: 2, L0362: 2, H0341: 1, H0638: 1, H0486: 1, H0635: 1, H0318: 1, H0581: 1, L0109: 1, H0014: 1, H0051: 1, H0594: 1, H0687: 1, H0328: 1, H0628: 1, H0032: 1, S0036: 1, S0150: 1, L0369: 1, L0640: 1, L0770: 1, L0662: 1, L0382: 1, L0790: 1, L0666: 1, L0665: 1, S0053: 1, L0565: 1, H0547: 1, H0436: 1, L0748: 1, L0740: 1, L0756: 1, H0343: 1 and L0591: 1.	15q21		105600, 109700, 114240, 151670, 160777, 600839, 601780, 602099
1899	HPIBA24	840379	1909	49 - 123	4506	Ser-6 to Gly-11.	AR060: 5, AR316: 5, AR089: 5 H0341: 1, S0354: 1, T0040: 1, H0036: 1, H0266: 1, H0264:			

1900	HPIBI40	588944	1910	184 - 447	4507	Phe-55 to Gln-60, Val-78 to Asn-87.	1, H0268: 1, T0041: 1, S0466: 1, S0150: 1 and H0652: 1. AR060: 7, AR316: 7, AR089: 7 L0748: 4, L0777: 3, L0758: 3, L0809: 2, H0670: 2, L0601: 2, S0358: 1, S0132: 1, H0411: 1, S0222: 1, S6014: 1, L0021: 1, H0581: 1, H0251: 1, H0163: 1, H0090: 1, H0372: 1, H0488: 1, S0150: 1, S0144: 1, L0769: 1, L0803: 1, L0665: 1, L0438: 1, L0439: 1, L0608: 1, L0366: 1 and H0667: 1.	11q23.2	261640, 602574, 602574
1901	HPIBT19	843567	1911	340 - 435	4508		S0150: 1		
1902	HPIAA82	835506	1912	158 - 196	4509		S0152: 1		
1903	HPIAB75	841653	1913	153 - 239	4510		AR162: 23, AR161: 22, AR163: 22, AR165: 20, AR196: 19, AR164: 19, AR166: 18, AR089: 13, AR299: 13, AR203: 12, AR178: 12, AR229: 12, AR313: 11, AR199: 10, AR191: 10, AR096: 9, AR270: 9, AR182: 9, AR197: 9, AR181: 9, AR175: 9, AR296: 9, AR180: 9, AR247: 9, AR060: 9, AR173: 9, AR272: 9, AR226: 9, AR195: 8, AR293: 8, AR300: 8, AR183: 8, AR269: 8, AR188: 8, AR235: 8, AR240: 8, AR238: 8, AR253: 8, AR176: 8, AR053: 8, AR174: 7, AR193: 7, AR275: 7, AR263: 7, AR192: 7, AR177: 7, AR312: 7, AR189: 7,		

1904	HPJAN76	826185	1914	275 - 331	4511			AR316: 7, AR268: 7, AR257: 7, AR200: 7, AR264: 7, AR274: 7, AR261: 7, AR231: 6, AR236: 6, AR258: 6, AR267: 6, AR228: 6, AR254: 6, AR225: 6, AR297: 6, AR213: 6, AR291: 6, AR185: 6, AR233: 6, AR212: 6, AR234: 6, AR308: 6, AR190: 6, AR104: 6, AR179: 6, AR227: 6, AR239: 6, AR266: 5, AR204: 5, AR285: 5, AR262: 5, AR290: 5, AR286: 5, AR237: 5, AR309: 5, AR282: 5, AR295: 5, AR288: 5, AR201: 5, AR294: 5, AR277: 5, AR271: 4, AR287: 4, AR289: 4, AR246: 4, AR255: 4, AR033: 4, AR232: 4, AR230: 4, AR243: 4, AR219: 4, AR250: 3, AR311: 3, AR061: 3, AR168: 3, AR242: 3, AR260: 3, AR218: 3, AR211: 3, AR283: 3, AR210: 2, AR214: 2, AR172: 2, AR039: 2, AR055: 2, AR171: 2, AR170: 2, AR222: 2, AR245: 2, AR256: 2, AR223: 1, AR221: 1 S0300: 1, H0413: 1, S0152: 1 and H0543: 1.		2q21-q22	133510, 133510, 165320, 223000,
								L0439: 12, L0769: 9, H0670: 6, H0547: 5, L0794: 4, L0650:			

1905	HPJAN76	854893	1915	275 - 331	4512			4, L0362: 4, L0770: 3, H0658: 3, L0717: 2, S0222: 2, H0620: 2, L0659: 2, H0659: 2, H0648: 2, L0751: 2, L0786: 2, L0594: 2, H0171: 1, S0046: 1, H0441: 1, H0431: 1, H0156: 1, H0581: 1, H0194: 1, T0010: 1, S6028: 1, H0615: 1, H0413: 1, L0369: 1, L0763: 1, L0638: 1, L0796: 1, L0804: 1, L0375: 1, L0527: 1, L0657: 1, L0493: 1, L0666: 1, L0663: 1, H0144: 1, H0520: 1, H0689: 1, H0682: 1, H0683: 1, H0684: 1, H0539: 1, S0152: 1, L0612: 1, L0779: 1, L0777: 1, L0758: 1, L0759: 1, L0588: 1, L0592: 1 and L0601: 1.	2q21-q22		223000, 256030
								L0439: 12, L0769: 9, H0670: 6, H0547: 5, L0794: 4, L0650: 4, L0362: 4, L0770: 3, H0658: 3, L0717: 2, S0222: 2, H0620: 2, L0659: 2, H0659: 2, H0648: 2, L0751: 2, L0786: 2, L0594: 2, H0171: 1, S0046: 1, H0441: 1, H0431: 1, H0156: 1, H0581: 1, H0194: 1, T0010: 1, S6028: 1, H0615: 1, H0413: 1, L0369: 1, L0763: 1, L0638: 1, L0796: 1, L0804: 1, L0375: 1, L0527: 1, L0657: 1, L0493: 1, L0666: 1, L0663: 1, H0144: 1, H0520: 1, H0689: 1, H0682: 1, H0683: 1, H0684: 1, H0539: 1, S0152: 1, L0612: 1, L0779: 1, L0777: 1, L0758: 1, L0759: 1, L0588: 1, L0592: 1 and L0601: 1.			133510, 133510, 165320, 223000, 223000, 256030
1906	HPJAU94	826719	1916	55 - 126	4513			H0305: 1 and S0152: 1.			
1907	HPJAW78	812766	1917	100 - 303	4514			S0216: 1, S0152: 1 and S0242: 1.			
1908	HPJBS16	608307	1918	31 - 369	4515	Asn-41 to Asp-46,	AR313: 27, AR165: 18,				



					Glu-62 to Tyr-67, Val-104 to Leu-112.	AR290: 18, AR269: 18, AR164: 18, AR166: 17, AR173: 17, AR258: 14, AR175: 14, AR300: 14, AR299: 13, AR257: 13, AR242: 12, AR267: 12, AR262: 12, AR247: 12, AR162: 12, AR161: 12, AR163: 11, AR268: 11, AR219: 11, AR240: 11, AR096: 11, AR183: 11, AR180: 11, AR178: 11, AR236: 10, AR179: 10, AR293: 9, AR191: 9, AR182: 9, AR229: 9, AR285: 9, AR218: 9, AR312: 9, AR199: 8, AR196: 8, AR297: 8, AR234: 8, AR181: 8, AR174: 8, AR176: 8, AR287: 8, AR296: 8, AR270: 8, AR260: 8, AR189: 8, AR185: 8, AR089: 7, AR193: 7, AR053: 7, AR294: 7, AR233: 7, AR226: 7, AR286: 7, AR255: 7, AR254: 7, AR203: 7, AR177: 7, AR204: 7, AR238: 7, AR213: 7, AR192: 7, AR274: 6, AR261: 6, AR039: 6, AR188: 6, AR295: 6, AR212: 6, AR228: 6, AR288: 6, AR282: 6, AR275: 6, AR033: 5, AR231: 5, AR200: 5, AR277: 5, AR197: 5, AR316: 5, AR291: 5, AR256: 5, AR245: 5,				
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									AR198: 5, AR243: 5, AR237: 5, AR309: 5, AR190: 4, AR250: 4, AR195: 4, AR264: 4, AR239: 4, AR201: 4, AR230: 4, AR283: 4, AR207: 4, AR205: 4, AR211: 4, AR266: 4, AR308: 4, AR227: 4, AR246: 4, AR060: 4, AR289: 4, AR271: 4, AR252: 4, AR311: 3, AR104: 3, AR232: 3, AR225: 3, AR168: 3, AR223: 3, AR055: 3, AR061: 3, AR210: 2, AR216: 2, AR224: 2, AR214: 2, AR235: 2, AR217: 2, AR263: 2, AR222: 2, AR172: 1 H0494: 1 and S0152: 1.			
1909	HPJBU04	798101	1919	288 - 392	4516				AR089: 6, AR316: 5, AR060: 4 H0402: 1, S0152: 1 and L0589: 1.			
1910	HPJCN83	743232	1920	195 - 305	4517	Gln-26 to Ala-33.			S0152: 1			
1911	HPJCP75	886192	1921	34 - 138	4518				S0152: 1			
1912	HPJCV35	827317	1922	527 - 664	4519	His-35 to His-40.			S0152: 1			
1913	HPJCX13	852869	1923	1830 - 2027	4520	Ala-54 to Ser-61.			AR313: 14, AR052: 11, AR194: 10, AR294: 10, AR186: 10, AR089: 9, AR246: 9, AR204: 8, AR184: 8, AR206: 8, AR293: 8, AR249: 8, AR182: 8, AR226: 7, AR270: 7, AR299: 7, AR300: 7, AR192: 6, AR055: 6, AR251: 6, AR312: 6, AR241: 6,			

1914	HPLAW13	840839	1924	199 - 312	4521	Lys-2 to Ser-9.	AR316: 6, AR274: 6, AR292: 6, AR213: 6, AR060: 6, AR282: 6, AR096: 6, AR053: 6, AR269: 6, AR309: 5, AR267: 5, AR185: 5, AR175: 5, AR258: 5, AR229: 5, AR271: 5, AR061: 5, AR238: 5, AR286: 5, AR183: 5, AR273: 5, AR033: 5, AR202: 5, AR263: 5, AR039: 5, AR310: 5, AR237: 5, AR290: 5, AR268: 4, AR296: 4, AR104: 4, AR234: 4, AR277: 4, AR253: 4, AR198: 4, AR298: 4, AR233: 4, AR265: 4, AR295: 4, AR275: 4, AR259: 3, AR291: 3, AR218: 3, AR285: 3, AR219: 3, AR205: 3, AR247: 3, AR231: 3, AR289: 3, AR283: 3, AR243: 3, AR240: 3, AR227: 2, AR256: 2, AR248: 2, AR232: 2, AR179: 2, AR284: 2, AR266: 2, AR177: 2, AR315: 1 S0216: 7, S0052: 6, S0152: 5, H0637: 3, H0694: 2, S0114: 1, S0001: 1, H0305: 1, H0619: 1, H0036: 1, H0615: 1, H0030: 1, H0032: 1, H0059: 1, L0532: 1, S0428: 1, L0758: 1 and H0543: 1. L0752: 26, H0670: 7, L0777: 7, H0553: 6, L0754: 5, H0032:		
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1915	HPMAI31	559369	1925	142 - 270	4522	Lys-38 to Lys-43.	4, H0038: 3, L0750: 3, L0756: 3, S0242: 3, H0318: 2, H0039: 2, H0030: 2, L0637: 2, L0748: 2, L0747: 2, L0749: 2, L0759: 2, L0600: 2, S0212: 1, L0005: 1, H0393: 1, S6026: 1, H0369: 1, H0574: 1, L0622: 1, H0244: 1, L0021: 1, H0098: 1, H0014: 1, H0510: 1, S6028: 1, H0111: 1, H0616: 1, H0623: 1, S0464: 1, H0509: 1, L0662: 1, L0774: 1, L0775: 1, L0651: 1, L0665: 1, H0658: 1, H0518: 1, S0044: 1, L0439: 1, L0779: 1, L0755: 1, L0731: 1 and L0605: 1.	11p15.5	125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631
1916	HPMBI91	638147	1926	216 - 251	4523		AR089: 8, AR316: 8, AR060: 7 L0776: 8, L0809: 5, L0800: 4, L0751: 4, L0754: 4, H0031: 3, S0328: 3, L0755: 3, L0757: 3, L0764: 2, L0775: 2, L0748: 2, L0777: 2, L0731: 2, L0808: 1, H0661: 1, S0132: 1, S0222: 1, L0055: 1, H0100: 1, L0761: 1, L0772: 1, L0644: 1, L0773: 1, L0804: 1, L0805: 1, L0787: 1, S0152: 1, H0521: 1, L0749: 1, L0780: 1 and L0601: 1.		
1917	HPMBT05	658715	1927	147 - 245	4524		H0031: 4, L0747: 2 and L0750: 1.		
1918	HPMBW95	639092	1928	523 - 534	4525		H0031: 3 L0803: 5, L0439: 4, L0471: 3, L0758: 3, H0331: 2, H0031: 2, L0809: 2, L0666: 2, L0663: 2, H0662: 1, S0358: 1, H0632: 1, H0486: 1, H0036: 1, S0388: 1, T0067: 1, H0494: 1, L0772: 1, L0646: 1, L0789: 1, S0374: 1, L0438: 1, H0648: 1, S0330: 1.		

1919	HPMCW10	702013	1929	169 - 246	4526		1, H0631: 1, L0748: 1, L0779: 1 and H0653: 1. H0539: 33, H0046: 13, S0410: 11, L0747: 10, H0333: 9, L0779: 7, S0360: 6, L0439: 6, H0135: 5, L0770: 5, L0794: 5, L0663: 5, H0144: 5, L0740: 5, L0777: 5, H0587: 4, H0024: 4, L0771: 4, L0662: 4, L0766: 4, L0659: 4, L0809: 4, L0754: 4, L0752: 4, L0731: 4, H0052: 3, H0620: 3, S0388: 3, L0769: 3, L0757: 3, L0758: 3, L0759: 3, L0595: 3, H0624: 2, H0295: 2, S0356: 2, H0586: 2, S0049: 2, H0545: 2, H0031: 2, H0087: 2, L0805: 2, L0789: 2, L0666: 2, H0547: 2, H0696: 2, L0742: 2, L0744: 2, L0748: 2, L0749: 2, S0436: 2, L0591: 2, H0422: 2, H0686: 1, H0713: 1, H0294: 1, S0114: 1, H0657: 1, H0484: 1, H0483: 1, H0661: 1, H0662: 1, H0402: 1, S0418: 1, S0420: 1, S0358: 1, S0444: 1, H0645: 1, S0300: 1, L0717: 1, H0549: 1, S0222: 1, H0441: 1, H0592: 1, S0005: 1, H0013: 1, H0244: 1, S0280: 1, L0021: 1, H0036: 1, L0105: 1, H0309: 1, T0110: 1, H0546: 1, H0015: 1, H0594: 1, H0615: 1, H0622: 1, H0644: 1, L0142: 1, H0181: 1, H0617: 1, H0032: 1, H0376: 1, H0090: 1, H0040: 1, T0004: 1, H0100: 1, H0334: 1, S0440: 1, L0598: 1, L0764: 1, L0768: 1, L0381: 1, L0803: 1, L0804: 1, L0774: 1, L0375: 1, L0806: 1, L0657: 1, L0384: 1, L0519: 1, L0791: 1.		
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1920	HPMCZ18	753435	1930	772 - 804	4527			1, L0665: 1, L0438: 1, H0520: 1, H0593: 1, H0690: 1, H0684: 1, S0380: 1, H0521: 1, S0406: 1, H0345: 1, S0037: 1, S0027: 1, S0028: 1, L0756: 1, L0786: 1, L0780: 1, L0753: 1, S0031: 1, L0592: 1, L0485: 1, L0608: 1, S0192: 1 and S0456: 1. L0754: 10, L0731: 5, L0771: 4, L0803: 4, H0574: 3, L0774: 3, L0748: 3, L0439: 3, H0013: 2, H0024: 2, H0510: 2, H0553: 2, H0623: 2, L0766: 2, H0144: 2, H0660: 2, L0747: 2, L0755: 2, S0110: 1, S0354: 1, S0358: 1, S0007: 1, H0441: 1, H0370: 1, H0455: 1, H0599: 1, H0575: 1, H0590: 1, S0010: 1, S0049: 1, H0046: 1, H0009: 1, H0123: 1, H0292: 1, H0428: 1, H0031: 1, H0644: 1, H0509: 1, L0764: 1, L0804: 1, L0806: 1, L0809: 1, L0666: 1, L0438: 1, H0547: 1, H0521: 1, H0696: 1, S0044: 1, L0741: 1, L0744: 1, L0750: 1, L0779: 1, L0591: 1 and L0603: 1.			
1921	HPMDA80	651354	1931	166 - 315	4528			L0809: 4, L0666: 4, L0756: 4, H0254: 3, H0012: 3, H0620: 3, L0439: 3, H0170: 2, H0550: 2, H0497: 2, H0052: 2, H0263: 2, H0031: 2, L0625: 2, L0769: 2, L0761: 2, L0372: 2, L0766: 2, L0438: 2, H0539: 2, L0777: 2, S0436: 2, L0604: 2, H0265: 1, H0295: 1, S0114: 1, L0417: 1, H0255: 1, H0663: 1, S0418: 1, S0356: 1, S0442: 1, S0444: 1, H0728: 1, S0007: 1, S0046: 1, S0476: 1, H0549: 1, H0441: 1.			

1922	HPMDD27	830748	1932	327 - 491	4529			1, H0586: 1, L0622: 1, H0486: 1, H0599: 1, H0706: 1, H0618: 1, T0006: 1, S0366: 1, H0488: 1, H0100: 1, L0351: 1, T0042: 1, H0132: 1, S0002: 1, L0770: 1, L5566: 1, L0772: 1, L0373: 1, L0646: 1, L0764: 1, L0662: 1, L0649: 1, L0650: 1, L0774: 1, L0775: 1, L0658: 1, L0659: 1, H0593: 1, H0651: 1, S0330: 1, S0152: 1, S0404: 1, S0406: 1, H0555: 1, H0631: 1, S0432: 1, L0744: 1, L0748: 1, H0445: 1, S0434: 1, L0485: 1, H0542: 1 and H0422: 1.		
								L0803: 12, H0581: 8, S0358: 6, H0046: 6, H0428: 6, S0356: 5, S0007: 5, H0031: 4, L0666: 4, L0665: 4, H0271: 3, H0038: 3, L0794: 3, L0804: 3, H0693: 3, S0406: 3, L0756: 3, L0758: 3, L0592: 3, S0116: 2, S0444: 2, H0431: 2, H0586: 2, H0486: 2, L0471: 2, H0615: 2, H0039: 2, S0036: 2, H0616: 2, S0422: 2, H0529: 2, L0770: 2, L0521: 2, L0662: 2, L0776: 2, L0787: 2, L0663: 2, L0438: 2, H0670: 2, H0660: 2, S0328: 2, S0330: 2, H0436: 2, L0748: 2, L0755: 2, L0485: 2, L0599: 2, S0192: 2, H0423: 2, H0624: 1, S0342: 1, S0114: 1, H0650: 1, H0657: 1, H0638: 1, S0354: 1, S0360: 1, S0408: 1, S0410: 1, H0329: 1, S0045: 1, S0046: 1, S0278: 1, H0441: 1, H0497: 1, H0331: 1, T0109: 1, S0280: 1, H0705: 1, H0318: 1, S0474: 1, T0110: 1, H0565: 1, H0572: 1, H0050: 1.		

								1, H0687: 1, S0003: 1, H0553: 1, H0488: 1, H0412: 1, T0041: 1, H0494: 1, S0438: 1, S0440: 1, S0144: 1, H0517: 1, L0763: 1, L0772: 1, L0372: 1, L0800: 1, L0764: 1, L0364: 1, L0649: 1, L0774: 1, L0523: 1, L0805: 1, L0655: 1, L0807: 1, L0527: 1, L0659: 1, L0783: 1, L0809: 1, L0664: 1, S0428: 1, S0053: 1, H0144: 1, S0374: 1, H0520: 1, H0519: 1, S0126: 1, H0682: 1, H0435: 1, H0648: 1, H0672: 1, S0378: 1, H0521: 1, S0044: 1, H0478: 1, H0627: 1, H0631: 1, S0027: 1, L0439: 1, L0740: 1, L0747: 1, L0749: 1, L0777: 1, L0752: 1, H0445: 1, S0436: 1, L0591: 1, S0196: 1, H0543: 1, S0424: 1, S0462: 1, S0446: 1 and H0506: 1.				
1923	HPMDF45	638148	1933	58 - 177	4530	Pro-18 to Gly-23.		L0748: 2, S0134: 1, H0609: 1, H0069: 1, H0012: 1, H0239: 1, H0031: 1 and H0561: 1.				
1924	HPMDP57	567303	1934	233 - 328	4531			H0031: 1, L0663: 1, S0028: 1, L0742: 1, L0439: 1 and H0444: 1.				
1925	HPMEG72	795709	1935	172 - 267	4532			L0766: 5, L0747: 3, L0362: 2, S0218: 1, L0002: 1, H0637: 1, H0550: 1, H0486: 1, H0250: 1, S0010: 1, H0421: 1, H0179: 1, H0271: 1, H0031: 1, H0560: 1, H0641: 1, S0002: 1, S0216: 1, H0144: 1, H0670: 1, H0518: 1 and H0445: 1.				
1926	HPMFM70	756931	1936	749 - 865	4533			S0114: 2, H0031: 2, H0265: 1, S0282: 1, H0069: 1, H0635: 1, H0673: 1, H0264: 1, S0428: 1, H0436: 1, L0779: 1 and L0731: 1.				



1927	HPMFP48	597457	1937	166 - 288	4534		AR089: 9, AR316: 8, AR060: 7 H0031: 3, S0438: 2, H0170: 1, S0116: 1, H0661: 1, H0125: 1, S0444: 1, H0574: 1, H0486: 1, H0012: 1, H0124: 1, H0413: 1, L0769: 1, L3905: 1, L0665: 1, H0672: 1, H0576: 1, L0748: 1, L0757: 1, L0759: 1, S0434: 1, S0026: 1 and H0543: 1.			
1928	HPMFW01	844865	1938	95 - 151	4535		L0439: 7, L0803: 5, L0369: 3, L0749: 3, L0717: 2, H0586: 2, H0031: 2, H0529: 2, L0804: 2, L0663: 2, H0519: 2, L0747: 2, L0756: 2, L0777: 2, L0759: 2, L0592: 2, L0593: 2, L0362: 2, S0276: 2, H0458: 1, H0638: 1, S0354: 1, S0358: 1, H0580: 1, S0046: 1, S0278: 1, S6022: 1, H0587: 1, H0486: 1, H0013: 1, H0052: 1, H0251: 1, H0544: 1, H0566: 1, L0471: 1, H0051: 1, S0368: 1, H0032: 1, H0591: 1, H0413: 1, H0560: 1, S0150: 1, L0770: 1, L0372: 1, L0771: 1, L0386: 1, L0775: 1, L0805: 1, L0776: 1, L0659: 1, L0809: 1, L0789: 1, L0666: 1, L0665: 1, H0520: 1, H0547: 1, H0689: 1, H0659: 1, H0672: 1, H0539: 1, H0521: 1, H0631: 1, S0206: 1, L0752: 1, L0608: 1, H0653: 1, H0665: 1, H0542: 1 and S0424: 1.	7		
1929	HPMGM06	590991	1939	67 - 333	4536	Thr-31 to Gly-36, Ala-39 to Asp-45, Tyr-65 to Gly-71, Arg-79 to Gly-88.	S0354: 1, S6028: 1 and H0031: 1.			
1930	HPMGW43	830452	1940	12 - 50	4537		AR089: 5, AR316: 4, AR060: 4	20q13	600281, 600281	

1931	HPMGY89	822864	1941	110 - 277	4538				L0759: 10, L0748: 6, L0766: 5, L0777: 5, L0783: 4, L0439: 4, H0556: 3, L0747: 3, L0749: 3, L0752: 3, L0731: 3, H0657: 2, S0360: 2, H0031: 2, H0551: 2, H0056: 2, L0438: 2, L0756: 2, L0596: 2, L0591: 2, L0595: 2, L0362: 2, L0603: 2, H0543: 2, S0040: 1, S0420: 1, S0376: 1, H0619: 1, H0370: 1, H0331: 1, L0021: 1, H0599: 1, S0346: 1, H0046: 1, H0012: 1, S0051: 1, H0375: 1, H0188: 1, T0006: 1, L0455: 1, H0477: 1, H0623: 1, L0351: 1, S0440: 1, L0451: 1, L0769: 1, L0639: 1, L0761: 1, L0773: 1, L0768: 1, L0774: 1, L0806: 1, L0653: 1, L0776: 1, L0659: 1, L0665: 1, H0144: 1, S0374: 1, H0547: 1, H0672: 1, H0539: 1, S0027: 1, L0744: 1, L0750: 1, L0779: 1, L0758: 1, S0260: 1, H0422: 1 and H0506: 1.			18q21.1-18q21.2	174810, 600624, 600993, 602080
1932	HPMKB09	900362	1942	1351 - 1593	4539	His-48 to Ser-61, Ala-66 to Val-72.			H0644: 4, L0809: 4, L0755: 3, L0352: 2, S0360: 1, S0045: 1, L0717: 1, H0031: 1, H0553: 1, L0800: 1, L0648: 1, L0662: 1, L0794: 1, L0804: 1, L0655: 1, L0665: 1, L0438: 1, H0672: 1, S0037: 1, L0748: 1, L0779: 1, L0731: 1, L0758: 1 and L0603: 1.				

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1933	HPMSH26	780109	1943	322 - 393	4540	.	1, S0194: 1, S0276: 1, S0196: 1 and H0542: 1. AR089: 55, AR316: 48, AR060: 42 S0126: 18, H0551: 11, L0757: 10, H0494: 9, L0747: 9, L0659: 8, H0521: 8, L0605: 8, L0601: 8, S0010: 7, H0144: 7, S0330: 7, S0027: 7, L0740: 7, L0604: 7, S0212: 6, S0476: 6, H0586: 6, L0662: 6, L0776: 6, S014: 6, L0754: 6, S0360: 5, S0278: 5, L0766: 5, L0775: 5, L0666: 5, S0374: 5, H0547: 5, S0152: 5, L0748: 5, L0439: 5, L0750: 5, L0599: 5, S0418: 4, S0420: 4, S0410: 4, H0580: 4, H0156: 4, S0346: 4, H0266: 4, S0003: 4, S0438: 4, S0344: 4, L0769: 4, L0654: 4, S0390: 4, L0731: 4, S0026: 4, S0040: 3, H0295: 3, H0402: 3, S0132: 3, H0550: 3, S0222: 3, H0013: 3, H0620: 3, H0622: 3, H0634: 3, H0623: 3, H0646: 3, S0142: 3, L0770: 3, L0803: 3, L0664: 3, L0438: 3, S0328: 3, H0539: 3, S012: 3, S0028: 3, L0759: 3, S0436: 3, L0596: 3, L0589: 3, L0592: 3, H0653: 3, S0192: 3, S0194: 3, S0342: 2, H0713: 2, H0661: 2, H0638: 2, S0354: 2, S0358: 2, S0376: 2, S0408: 2, S0007: 2, S0045: 2, H0393: 2, S6022: 2, H0486: 2, S0474: 2, H0052: 2, H0194: 2, H0546: 2, H0545: 2, H0457: 2, H0051: 2, H0083: 2, S0250: 2, S0214: 2, H0328: 2, H0032: 2, H0169: 2, S0036: 2, S0038: 2, H0561:	2pl4-pl3	203800, 602404
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1934	HPMSH96	610023	1944	57 - 152	4541			1, S0052: 1, S0428: 1, S0053: 1, H0726: 1, H0520: 1, H0519: 1, H0593: 1, H0435: 1, H0659: 1, H0670: 1, S0380: 1, H0518: 1, H0436: 1, L0744: 1, L0746: 1, L0777: 1, L0752: 1, L0753: 1, L0755: 1, S0031: 1, H0444: 1, L0480: 1, L0485: 1, L0362: 1, H0668: 1, L0096: 1, S0196: 1, H0543: 1 and H0423: 1. H0111: 1, H0144: 1 and L0608: 1.	10cen-q26.11	
1935	HPQAJ25	853550	1945	85 - 204	4542			H0624: 1, H0171: 1, H0266: 1, H0039: 1, S0136: 1 and L0748: 1.	1p22-p21	102770, 120280, 120280, 166600, 170995, 191540, 232400, 232400, 274270, 274270, 600309, 601414, 601691, 601691, 601691, 601718, 602094
1936	HPQAJ27	782957	1946	233 - 355	4543	Ser-28 to Phe-39.		AR060: 5, AR316: 4, AR089: 2 S0136: 426 and H0559: 1.		
1937	HPQAN50	788813	1947	164 - 298	4544			AR060: 5, AR316: 4, AR089: 2 S0136: 15 and H0615: 1.		
1938	HPQAO80	740261	1948	284 - 292	4545			AR060: 5, AR316: 4, AR089: 3 S0136: 197 and H0559: 1.		
1939	HPQAW27	716371	1949	118 - 213	4546			S0136: 27		
1940	HPQBC90	612818	1950	21 - 116	4547			S0136: 5		
1941	HPQBJ48	637788	1951	251 - 361	4548	Gln-20 to Leu-25.		AR060: 11, AR316: 8, AR089: 6 S0136: 10		
1942	HPQBJ48	867512	1952	251 - 361	4549	Gln-20 to Leu-25.		AR060: 11, AR316: 8, AR089: 6 S0136: 10		
1943	HPQBL67	559372	1953	234 - 248	4550			S0136: 57		

1944	HPQBT17	826413	1954	236 - 274	4551		AR060: 1 S0136: 136		
1945	HPQCF94	684368	1955	212 - 298	4552		AR060: 6, AR316: 4, AR089: 2 S0136: 85		
1946	HPQCI62	566799	1956	237 - 461	4553	Gly-8 to Asp-13, Cys-21 to Tyr-26, Ser-58 to Ser-64.	S0136: 2		
1947	HPQRS74	655361	1957	146 - 256	4554		AR060: 6, AR316: 5, AR089: 3 S0136: 73 and L0684: 1.		
1948	HPRAD30	805969	1958	99 - 320	4555	Arg-66 to Val-72.	S0136: 115, L0731: 10, H0624: 9, L0803: 9, S0026: 9, S0358: 7, L0439: 7, S0418: 6, L0805: 6, L0754: 6, H0619: 5, L0659: 5, L0666: 5, L0750: 5, L0756: 5, L0779: 5, H0170: 4, S0360: 4, H0553: 4, L0770: 4, L0662: 4, H0547: 4, L0759: 4, H0351: 3, H0486: 3, H0013: 3, H0046: 3, H0050: 3, L0471: 3, H0266: 3, H0623: 3, L0774: 3, L0776: 3, H0144: 3, H0520: 3, S0380: 3, L0777: 3, S0040: 2, H0295: 2, H0661: 2, S0420: 2, S0376: 2, H0722: 2, S0476: 2, H0369: 2, H0592: 2, H0333: 2, H0574: 2, H0427: 2, H0575: 2, H0051: 2, S0022: 2, H0615: 2, H0090: 2, S0438: 2, S0440: 2, L0598: 2, L0769: 2, L0766: 2, L0518: 2, L0663: 2, H0726: 2, S0126: 2, H0539: 2, H0521: 2, H0696: 2, H0555: 2, L0740: 2, L0747: 2, L0753: 2, L0755: 2, L0757: 2, L0593: 2, H0686: 1, S0212: 1, H0484: 1, H0671: 1, H0662: 1, S0356: 1, S0442: 1, S0354: 1, S0444: 1, H0645: 1, S0222: 1, H0441: 1, H0409: 1.		

1949	HPRCC91	638151	1959	653 - 682	4556	<p>H0586: 1, H0587: 1, H0632: 1, S0280: 1, H0156: 1, L0021: 1, H0599: 1, H0590: 1, L0105: 1, H0309: 1, L0040: 1, H0544: 1, H0545: 1, H0019: 1, L0163: 1, S0051: 1, H0275: 1, H0083: 1, H0375: 1, S6028: 1, S0250: 1, H0328: 1, H0428: 1, H0031: 1, H0111: 1, H0628: 1, H0032: 1, S0364: 1, H0135: 1, H0040: 1, H0616: 1, H0551: 1, H0380: 1, H0268: 1, H0100: 1, H0494: 1, H0652: 1, S0210: 1, L0763: 1, L0796: 1, L5566: 1, L0646: 1, L0800: 1, L0764: 1, L0771: 1, L0768: 1, L0794: 1, L0649: 1, L0804: 1, L0775: 1, L0806: 1, L0527: 1, L0636: 1, L0783: 1, L0790: 1, S0296: 1, H0693: 1, H0519: 1, H0690: 1, H0682: 1, H0684: 1, H0648: 1, H0672: 1, S0454: 1, S0013: 1, H0626: 1, H0627: 1, S0028: 1, L0744: 1, L0745: 1, L0752: 1, L0758: 1, S0434: 1, S0436: 1, L0592: 1, H0667: 1, S0194: 1 and H0506: 1.</p> <p>AR228: 5, AR295: 4, AR216: 4, AR262: 4, AR221: 3, AR223: 3, AR288: 3, AR267: 3, AR299: 3, AR252: 3, AR060: 3, AR237: 2, AR250: 2, AR309: 2, AR205: 2, AR212: 2, AR165: 2, AR033: 2, AR282: 2, AR274: 2, AR217: 2, AR270: 2, AR275: 2, AR240: 2, AR308: 1, AR233: 1.</p>
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1950	HPRCF40	834808	1960	2217 - 2321	4557			1, T0042: 1, H0359: 1, S0370: 1, H0646: 1, H0026: 1, L0763: 1, L0796: 1, L0644: 1, L0771: 1, L0773: 1, L0626: 1, L0767: 1, L0768: 1, L0387: 1, L0774: 1, L0375: 1, L0651: 1, L0655: 1, L0807: 1, L0658: 1, L0558: 1, L0783: 1, L0809: 1, L0543: 1, L0647: 1, L0663: 1, H0698: 1, S0374: 1, H0723: 1, H0691: 1, H0520: 1, H0689: 1, H0682: 1, H0672: 1, H0696: 1, S0044: 1, S014: 1, S0028: 1, L0742: 1, L0779: 1, L0752: 1, S0031: 1, H0445: 1, S0436: 1, L0596: 1, L0588: 1, L0593: 1, L0603: 1, H0667: 1, H0542: 1 and H0506: 1.		
								AR089: 7, AR316: 6, AR060: 5 L0748: 15, L0803: 9, L0745: 8, L0731: 7, L0740: 6, L0754: 6, L0749: 6, L0746: 5, S0356: 4, H0052: 4, L0766: 4, L0743: 4, L0777: 4, L0758: 4, S0360: 3, S0003: 3, H0032: 3, H0646: 3, L0794: 3, L0775: 3, L0438: 3, H0522: 3, L0439: 3, L0485: 3, S0222: 2, H0581: 2, H0014: 2, H0591: 2, L0804: 2, L0776: 2, L0666: 2, L0664: 2, L0665: 2, H0435: 2, L0590: 2, L0591: 2, H0542: 2, H0543: 2, L0600: 2, H0686: 1, S6024: 1, H0664: 1, S0358: 1, S0376: 1, H0331: 1, S0414: 1, H0492: 1, H0486: 1, L0021: 1, T0082: 1, H0004: 1, S0010: 1, L0105: 1, H0242: 1, L0471: 1, H0510: 1, H0039: 1, H0622: 1, H0553: 1, H0090: 1,	8	

1951	HPRCF50	638153	1961	151 - 306	4558			1, H0038: 1, H0040: 1, H0616: 1, H0059: 1, H0654: 1, S0142: 1, H0538: 1, S0426: 1, L0637: 1, L0761: 1, L0667: 1, L0764: 1, L0771: 1, L0768: 1, L0560: 1, L0774: 1, L0784: 1, L0806: 1, L0805: 1, L0652: 1, L0659: 1, L0809: 1, H0144: 1, S0374: 1, H0519: 1, H0593: 1, S0122: 1, H0684: 1, H0659: 1, H0658: 1, H0666: 1, S0330: 1, H0539: 1, S0152: 1, H0521: 1, H0187: 1, L0747: 1, L0750: 1, L0779: 1, L0757: 1, L0759: 1, S0192: 1, S0242: 1, S0194: 1 and H0422: 1.		
1952	HPRCL58	566873	1962	171 - 263	4559			S0402: 1, H0645: 1, H0549: 1, T0040: 1, H0032: 1, S0002: 1, S0152: 1 and H0665: 1.	15q14	102540, 118511, 218000, 227220, 243500, 254770, 601800
1953	HPRCM72	813512	1963	281 - 607	4560	Arg-76 to Lys-91.		H0032: 1		
								AR060: 6, AR316: 5, AR089: 4 L0766: 11, L0748: 10, L0731: 6, L0805: 5, L0776: 5, L0777: 5, L0752: 5, L0759: 5, L0659: 4, L0666: 4, L0665: 4, L0754: 4, L0749: 4, L0757: 4, S0358: 3, H0580: 3, H0519: 3, L0740: 3, L0756: 3, H0624: 2, H0716: 2, H0208: 2, H0574: 2, H0052: 2, S0003: 2, H0328: 2, L0649: 2, L0663: 2, L0439: 2, L0745: 2, L0747: 2, L0605: 2, L0362: 2, H0170: 1, H0686: 1, S0212: 1, H0483: 1, H0255: 1, S0348: 1, S0418: 1, S0376: 1, S0360: 1, S0007: 1, H0619: 1,		

1954	HPRC59	601523	1964	142 - 174	4561				S022: 1, H0586: 1, H0486: 1, H0250: 1, S0010: 1, L0105: 1, H0194: 1, H0327: 1, H0565: 1, H0123: 1, H0050: 1, H0024: 1, H0015: 1, S0051: 1, S0318: 1, S0316: 1, S0214: 1, H0553: 1, H0030: 1, H0032: 1, H0068: 1, H0163: 1, H0413: 1, S0038: 1, S0344: 1, S0422: 1, S0426: 1, L0763: 1, L0761: 1, L0642: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0774: 1, L0775: 1, L0376: 1, L0806: 1, L0657: 1, L0517: 1, L0545: 1, L0529: 1, L0791: 1, L0664: 1, H0144: 1, L0438: 1, H0520: 1, H0689: 1, H0684: 1, H0435: 1, H0660: 1, H0672: 1, H0539: 1, H0521: 1, L0750: 1, L0779: 1, L0755: 1, S0031: 1, S0436: 1, L0608: 1, S0242: 1, S0276: 1, H0542: 1, H0543: 1, H0423: 1 and H0506: 1.		
1955	HPRC173	610024	1965	135 - 170	4562			6q12-q13	H0032: 1 and L0794: 1. L0438: 10, L0766: 9, L0748: 9, L0777: 8, L0805: 6, L0742: 6, H0457: 5, L0771: 5, L0803: 5, H0672: 5, H0591: 4, L0794: 4, L0754: 4, L0779: 4, L0758: 4, L0759: 4, L0415: 3, H0024: 3, H0252: 3, H0032: 3, L0770: 3, L0761: 3, L0804: 3, L0776: 3, L0666: 3, L0665: 3, L0439: 3, H0624: 2, S0444: 2, S0360: 2, L0717: 2, T0039: 2, H0013: 2, S0003: 2, H0428: 2, L0662: 2, L0659: 2, L0809: 2, L0740: 2, L0753: 2, L0588: 2, L0485: 2, L0581: 2, S0026: 2, S6024: 1, H0295: 1, H0657: 1, S0116: 1.	203310	

1956	HPRTH56	852240	1966	25 - 105	4563		1, S0212: 1, H0663: 1, H0402: 1, S0418: 1, S0420: 1, S0442: 1, S0354: 1, S0376: 1, S0046: 1, H0351: 1, H0411: 1, H0600: 1, H0069: 1, H0156: 1, H0599: 1, H0004: 1, S0346: 1, H0318: 1, H0581: 1, L0040: 1, L0471: 1, T0003: 1, S0050: 1, H0014: 1, L0163: 1, S0388: 1, S6028: 1, H0267: 1, H0687: 1, H0070: 1, L0194: 1, T0006: 1, H0673: 1, L0456: 1, H0316: 1, H0038: 1, H0040: 1, H0616: 1, H0623: 1, H0100: 1, S0440: 1, H0509: 1, S0426: 1, L0598: 1, H0529: 1, L0763: 1, L0637: 1, L0772: 1, L0646: 1, L0521: 1, L0768: 1, L0649: 1, L0775: 1, L0806: 1, L0655: 1, L0657: 1, L0515: 1, L0789: 1, L0790: 1, L0532: 1, L0663: 1, S0374: 1, L0565: 1, H0520: 1, H0519: 1, H0593: 1, H0658: 1, H0670: 1, H0660: 1, S0330: 1, S0350: 1, H0521: 1, S0404: 1, S0406: 1, H0436: 1, H0631: 1, L0750: 1, L0757: 1, L0589: 1, L0599: 1, H0136: 1, S0276: 1 and H0422: 1.		
							H0428: 2, L0369: 2, L0771: 2, L0803: 2, L0774: 2, L0805: 2, L0665: 2, L0731: 2, L0759: 2, H0556: 1, H0402: 1, S0360: 1, L0717: 1, H0013: 1, S0280: 1, H0252: 1, H0212: 1, L0598: 1, L0770: 1, L0769: 1, L0646: 1, L0636: 1, L0518: 1, L0783: 1, L0809: 1, L0790: 1, S0052: 1, L0438: 1, H0520: 1, H0593: 1, H0672: 1, H0539: 1, L0758: 1, S0196: 1 and H0422: 1.		

1957	HPTRE80	884167	1967	102 - 665	4564	Gly-35 to Ser-40, Ser-61 to Arg-72, Pro-148 to Arg-172.	AR089: 27, AR316: 23, AR060: 19 L0769: 5, L0759: 4, H0402: 3, S0376: 3, H0424: 3, L0749: 3, S0360: 2, S0222: 2, L0535: 2, L0774: 2, L0806: 2, L0384: 2, L0666: 2, H0265: 1, S0218: 1, H0484: 1, H0255: 1, S0354: 1, S0007: 1, H0392: 1, H0559: 1, H0486: 1, T0039: 1, T0060: 1, L0021: 1, H0004: 1, H0581: 1, H0052: 1, H0204: 1, H0024: 1, H0405: 1, H0617: 1, H0606: 1, H0090: 1, H0272: 1, H0494: 1, S0002: 1, L0770: 1, L0772: 1, L0372: 1, L0641: 1, L0645: 1, L0771: 1, L0768: 1, L0794: 1, L0381: 1, L0775: 1, L0789: 1, H0547: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, H0576: 1, L0744: 1, L0779: 1, L0758: 1, H0445: 1, H0423: 1 and H0422: 1.	22q13.33	
1958	HPTRI42	655362	1968	266 - 481	4565	Pro-19 to Pro-26, Gly-33 to Ser-38, Gly-45 to Tyr-52, Ser-65 to Ser-71.	AR060: 22, AR316: 16, AR089: 10 H0618: 3, H0619: 2, H0424: 2, L0776: 2, H0136: 2, S0276: 2, H0716: 1, H0261: 1, H0250: 1, H0575: 1, H0036: 1, H0310: 1, H0052: 1, H0123: 1, H0024: 1, H0401: 1, H0169: 1, H0616: 1, L0351: 1, H0652: 1, L0768: 1, L0766: 1, L0803: 1, L0659: 1, L0809: 1, L0666: 1, L0665: 1, S0126: 1, H0672: 1, H0539: 1, S0406: 1, H0576: 1, L0439: 1, L0779: 1, L0777: 1 and H0423: 1.	11	
1959	HPTRL95	838154	1969	149 - 262	4566	Met-1 to Pro-7.	AR226: 36, AR232: 21, AR061: 14, AR238: 13,		

[illegible]

1960	HPTRQ52	655363	1970	224 - 325	4567			AR290: 4, AR296: 4, AR173: 4, AR217: 4, AR033: 4, AR096: 4, AR311: 4, AR245: 3, AR055: 3, AR104: 3, AR189: 3, AR294: 3, AR221: 3, AR264: 3, AR198: 3, AR168: 3, AR212: 3, AR222: 3, AR258: 3, AR179: 3, AR174: 3, AR185: 3, AR205: 3, AR195: 3, AR193: 3, AR274: 3, AR210: 3, AR256: 3, AR313: 3, AR260: 2, AR308: 2, AR271: 2, AR213: 2, AR263: 2, AR211: 2, AR219: 2, AR216: 2, AR312: 2, AR242: 1, AR253: 1, AR218: 1, AR250: 1 L0439: 12, L0751: 6, H0424: 5, L0766: 4, L0653: 3, L0809: 3, L0748: 3, L0759: 3, S0028: 2, L0754: 2, L0747: 2, S0026: 2, S0412: 2, H0656: 1, H0619: 1, L0717: 1, T0109: 1, S0010: 1, H0545: 1, H0150: 1, H0051: 1, S6028: 1, H0266: 1, L0643: 1, L0764: 1, L0768: 1, L0649: 1, L0803: 1, L0774: 1, L0775: 1, L0805: 1, L0783: 1, L0647: 1, L0789: 1, L0664: 1, H0144: 1, L0438: 1, H0670: 1, H0672: 1, L0749: 1, L0777: 1, L0780: 1, L0758: 1, S0242: 1, H0423: 1 and L0600: 1.	ip34	130500, 133200, 138140, 168360, 171760, 171760,
								AR089: 23, AR316: 21, AR060: 19 H0694: 12, L0748: 10,		



							L0731: 7, L0754: 6, H0265: 5, H0556: 5, L0758: 5, S0420: 4, S0408: 4, L0517: 4, H0657: 3, H0618: 3, H0052: 3, H0083: 3, H0553: 3, H0124: 3, H0494: 3, L0763: 3, L0666: 3, L0663: 3, S0126: 3, L0747: 3, H0295: 2, S0134: 2, S0418: 2, H0637: 2, S0046: 2, H0431: 2, H0575: 2, H0545: 2, H0271: 2, H0039: 2, H0424: 2, H0641: 2, L0764: 2, L0766: 2, L0774: 2, L0775: 2, L0776: 2, L0655: 2, L0783: 2, L0665: 2, H0519: 2, H0522: 2, S0044: 2, L0755: 2, L0595: 2, L0362: 2, H0543: 2, S0040: 1, H0294: 1, H0656: 1, S0212: 1, H0484: 1, H0661: 1, H0662: 1, S0360: 1, H0619: 1, S0222: 1, H0486: 1, H0156: 1, H0706: 1, H0253: 1, S0010: 1, S0346: 1, H0318: 1, H0596: 1, H0231: 1, H0046: 1, H0150: 1, H0081: 1, H0050: 1, H0012: 1, H0620: 1, H0014: 1, L0163: 1, S0051: 1, T0010: 1, S6028: 1, H0266: 1, H0179: 1, H0292: 1, H0031: 1, H0644: 1, H0182: 1, H0617: 1, H0606: 1, H0673: 1, L0455: 1, L0456: 1, H0598: 1, H0038: 1, H0040: 1, H0616: 1, H0087: 1, T0067: 1, H0264: 1, T0041: 1, H0131: 1, H0647: 1, S0002: 1, L0772: 1, L0642: 1, L0662: 1, L0767: 1, L0657: 1, L0659: 1, L0382: 1, L0664: 1, H0144: 1, S0374: 1, H0593: 1, H0690: 1, H0682: 1, H0659: 1, H0658: 1, H0666: 1, H0651: 1, H0539: 1, H0521: 1, S0406: 1, H0576: 1,	176100, 176100, 178300, 230000, 255800
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1961	HPTTH35	566875	1971	80 - 142	4568			L0743: 1, L0740: 1, L0750: 1, L0779: 1, H0445: 1 and S0436: 1. L0809: 6, L0751: 5, L0747: 5, H0556: 4, L0749: 4, L0774: 3, L0748: 3, H0265: 2, S0003: 2, L0439: 2, L0757: 2, L0758: 2, H0656: 1, S0116: 1, H0484: 1, H0664: 1, S0356: 1, S0360: 1, S0476: 1, S6026: 1, H0333: 1, H0618: 1, H0253: 1, H0009: 1, H0424: 1, H0213: 1, H0135: 1, H0090: 1, H0560: 1, H0396: 1, S0142: 1, S0344: 1, L0763: 1, L0769: 1, L5566: 1, L0800: 1, L0794: 1, L0766: 1, L0659: 1, L0647: 1, L0789: 1, H0670: 1, S0206: 1, L0741: 1, L0740: 1, L0756: 1, L0752: 1, L0608: 1, L0362: 1 and S0276: 1.		
1962	HPTTH65	612865	1972	210 - 326	4569	Arg-22 to Trp-27, Gln-29 to Glu-36.		H0424: 2, L0615: 1, H0213: 1 and H0658: 1.	4q21-qter	
1963	HPTTH62	561954	1973	222 - 413	4570	Pro-27 to Cys-33.		L0439: 3, L0749: 3, H0551: 2, L0766: 2, L0776: 2, H0547: 2, L0751: 2, H0459: 1, S0418: 1, H0637: 1, L0717: 1, S0222: 1, T0039: 1, L0021: 1, H0253: 1, S0049: 1, H0213: 1, L0456: 1, H0264: 1, H0561: 1, H0647: 1, L0770: 1, L0642: 1, L0768: 1, L0512: 1, L0783: 1, L0809: 1, L0666: 1, S0378: 1, S0454: 1, L0748: 1, L0747: 1, L0755: 1, L0731: 1, L0759: 1, H0343: 1, L0595: 1 and H0352: 1.	1	
1964	HPTVH24	831983	1974	766 - 873	4571			S0356: 3, H0052: 3, H0457: 3, S0142: 3, H0265: 2, S0358: 2, H0253: 2, H0581: 2, H0424: 2, L0769: 2, L0761: 2, L0764: 2, L0666: 2, H0144: 2, H0672: 2.	9	

									2, H0521: 2, L0750: 2, L0596: 2, L0591: 2, H0556: 1, S0040: 1, H0657: 1, S0212: 1, H0638: 1, S0418: 1, S0360: 1, S0045: 1, H0261: 1, H0607: 1, H0592: 1, H0586: 1, L0622: 1, L0021: 1, H0575: 1, T0048: 1, H0421: 1, H0041: 1, H0123: 1, H0019: 1, H0051: 1, T0010: 1, H0181: 1, S0366: 1, H0641: 1, L0637: 1, L0800: 1, L0771: 1, L0773: 1, L0364: 1, L0804: 1, L0775: 1, L0634: 1, L0659: 1, L0783: 1, L0792: 1, S0052: 1, H0703: 1, S0374: 1, H0658: 1, H0666: 1, S0378: 1, S0380: 1, H0522: 1, S0406: 1, H0478: 1, S0037: 1, L0743: 1, L0740: 1, L0779: 1, L0758: 1, H0445: 1, H0542: 1 and H0543: 1.				
1965	HPTVH59	695753	1975	144 - 278	4572	Pro-24 to Gln-44.		H0424: 15, S6024: 1, H0033: 1, H0213: 1, L0769: 1 and L0805: 1.	1				
1966	HPTVI04	897503	1976	273 - 470	4573	Ser-23 to Arg-30, Gln-42 to Pro-48, Arg-50 to Arg-56.		L0764: 4, L0439: 4, H0424: 3, L0659: 3, H0617: 2, L0666: 2, L0756: 2, L0757: 2, H0543: 2, S0222: 1, H0492: 1, H0270: 1, H0036: 1, H0620: 1, H0023: 1, L0638: 1, L0761: 1, L0646: 1, L0662: 1, L0766: 1, L0655: 1, L0783: 1, L0809: 1, L0664: 1, L0438: 1, H0682: 1, H0436: 1, L0747: 1, L0779: 1, L0777: 1, L0758: 1 and H0423: 1.	16p13.3		141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 156850, 186580, 191092, 600140, 600273, 601313, 601785		
1967	HPTVI96	636064	1977	271 - 291	4574			L0809: 5, L0779: 5, L0758: 5, L0769: 4, L0764: 4, L0777: 4, H0634: 3, L0748: 3, L0750: 3, L0731: 3, S0222: 2, L0163: 2, L0763: 2, L0772: 2, L0775: 2, L0776: 2, H0651: 2, L0749:	16				

1968	HPVAA15	783074	1978	74 - 148	4575			2, L0759: 2, H0657: 1, S0376: 1, S0300: 1, L0622: 1, H0427: 1, H0009: 1, L0471: 1, T0006: 1, H0424: 1, H0674: 1, H0708: 1, H0135: 1, H0413: 1, S0438: 1, L0771: 1, L0768: 1, L0794: 1, L0766: 1, L0774: 1, L0375: 1, L0806: 1, L0789: 1, H0648: 1, H0521: 1, S0406: 1 and H0506: 1.			115660, 139250, 148500, 150200, 154275, 162100, 170500, 170500, 170500, 182452, 230200, 249000, 253250
1969	HPVAB20	601692	1979	48 - 158	4576			AR060: 6, AR316: 5, AR089: 4 L0439: 4, L0803: 3, H0590: 2, L0483: 2, H0163: 2, L0805: 2, S0374: 2, H0658: 2, H0696: 2, H0717: 1, S0116: 1, S0358: 1, L0717: 1, H0052: 1, H0194: 1, H0184: 1, L0738: 1, H0545: 1, S0316: 1, S0003: 1, S0364: 1, S0366: 1, S0036: 1, H0272: 1, L0638: 1, L0766: 1, L0776: 1, L0789: 1, L0664: 1, L0665: 1, H0710: 1, H0521: 1, S0013: 1, S0406: 1, L0744: 1, L0752: 1, L0758: 1, L0605: 1, S0026: 1 and H0543: 1.	17q24		
1970	HPVAB63	561955	1980	311 - 352	4577			L0776: 2, L0748: 2, H0170: 1, H0685: 1, H0580: 1, H0052: 1, S6028: 1, L0771: 1, L0775: 1, H0520: 1, S0013: 1, L0749: 1, L0777: 1 and H0543: 1. L0439: 17, L0770: 8, L0438: 8, L0740: 6, L0749: 6, L0803: 5, L0748: 5, L0755: 5, L0766: 4, L0731: 4, S0374: 3, H0670: 3, H0685: 2, S0444: 2, H0431: 2, H0318: 2, H0011: 2, S0003: 2, H0494: 2, H0538: 2, L0662: 2, L0659: 2, L0791: 2, L0751: 2, L0747: 2, L0779: 2, L0777: 2	2p24.3-p24.1	602134	

1971	HPVAF86	750951	1981	91 - 210	4578				2, H0170: 1, H0556: 1, S0342: 1, H0713: 1, S0402: 1, L0414: 1, S0110: 1, S0001: 1, H0662: 1, S0356: 1, S0354: 1, S0358: 1, S0360: 1, H0729: 1, H0728: 1, H0619: 1, H0369: 1, H0549: 1, H0550: 1, H0587: 1, H0427: 1, H0036: 1, H0590: 1, H0253: 1, H0046: 1, H0012: 1, H0023: 1, S0050: 1, H0014: 1, T0010: 1, S0214: 1, H0039: 1, H0553: 1, H0674: 1, H0135: 1, H0488: 1, S0015: 1, S0438: 1, S0472: 1, H0647: 1, S0210: 1, L0520: 1, L0763: 1, L0769: 1, L0800: 1, L0644: 1, L0521: 1, L0768: 1, L0774: 1, L0775: 1, L0375: 1, L0805: 1, L0657: 1, L0636: 1, L0782: 1, L0783: 1, L0809: 1, L0528: 1, L0647: 1, L0789: 1, L0793: 1, L0532: 1, L0664: 1, S0053: 1, H0144: 1, H0725: 1, H0547: 1, H0659: 1, H0658: 1, H0660: 1, H0648: 1, S0013: 1, H0696: 1, S0037: 1, S0206: 1, L0741: 1, L0750: 1, L0752: 1, L0757: 1, H0445: 1, S0436: 1, L0605: 1, L0592: 1, L0485: 1, L0599: 1, S0026: 1, S0242: 1, H0422: 1 and S0424: 1.		
1972	HPWAH55	866478	1982	144 - 263	4579				S0013: 1		
1973	HPWAO89	732157	1983	46 - 171	4580				H0036: 1		
1974	HPWAS27	536008	1984	305 - 409	4581				L0749: 3, L0748: 2, H0581: 1 and S0044: 1.		
1975	HPWAT86	747520	1985	83 - 262	4582				S0346: 1, S0049: 1, H0124: 1, H0144: 1, S0044: 1, L0748: 1 and L0747: 1.		
									S0051: 1, S0044: 1 and H0423: 1.		

1976	HPWAV82	830084	1986	401 - 439	4583		L0775: 2, L0638: 1, L0803: 1, S0044: 1, L0751: 1, L0756: 1, L0759: 1 and H0668: 1.		
1977	HPWBA36	840380	1987	83 - 157	4584		AR089: 14, AR316: 12, AR060: 9 S0044: 2 and L0803: 1.		
1978	HPWTF23	843700	1988	283 - 675	4585	Val-80 to Leu-92, Ser-98 to Lys-104, Pro-111 to Pro-122.	AR089: 52, AR316: 31, AR060: 10 H0710: 28, L0659: 18, L0747: 18, H0656: 13, H0436: 10, H0271: 9, L0751: 9, S0474: 8, H0581: 8, H0179: 8, H0063: 8, L0731: 8, L0599: 8, H0650: 7, L0662: 7, L0756: 7, H0555: 6, S0354: 5, H0036: 5, H0590: 5, H0052: 5, L0770: 5, L0761: 5, S0428: 5, S0374: 5, L0439: 5, H0717: 4, H0393: 4, S0222: 4, H0156: 4, H0309: 4, S0312: 4, S0314: 4, H0090: 4, H0591: 4, L0637: 4, L0776: 4, L0783: 4, L0438: 4, L0757: 4, H0543: 4, H0716: 3, H0662: 3, H0619: 3, H0392: 3, H0575: 3, H0004: 3, H0673: 3, S0364: 3, H0135: 3, H0059: 3, H0494: 3, L0667: 3, L0764: 3, L0803: 3, L0775: 3, L0655: 3, L0809: 3, L0666: 3, H0670: 3, L0744: 3, L0750: 3, L0779: 3, L0758: 3, L0759: 3, S0436: 3, H0556: 2, H0713: 2, S6024: 2, H0341: 2, S0282: 2, H0402: 2, S0442: 2, S0376: 2, S0360: 2, H0580: 2, H0329: 2, H0728: 2, H0645: 2, H0369: 2, H0486: 2, S0280: 2, H0042: 2, H0421: 2, H0545: 2, H0457: 2, H0620: 2, H0014: 2, S0051: 2, T0010: 2, S0340: 2, H0031: 2, H0644: 2, H0383: 2.		

						H0674: 2, H0163: 2, H0551: 2, H0264: 2, H0488: 2, T0004: 2, S0438: 2, H0130: 2, H0647: 2, L0766: 2, L0517: 2, L0518: 2, L0647: 2, H0547: 2, H0660: 2, S0044: 2, S0027: 2, S0028: 2, L0748: 2, L0754: 2, L0745: 2, H0445: 2, S0434: 2, L0596: 2, L0588: 2, H0506: 2, H0170: 1, S0134: 1, L0414: 1, L0785: 1, S0212: 1, H0255: 1, S0358: 1, S0444: 1, H0637: 1, H0208: 1, S6022: 1, H0550: 1, H0609: 1, H0586: 1, H0333: 1, T0060: 1, H0427: 1, L0021: 1, L0022: 1, S0010: 1, S0346: 1, L0105: 1, H0318: 1, H0597: 1, H0150: 1, L0471: 1, H0011: 1, S0362: 1, H0373: 1, S0388: 1, H0354: 1, H0099: 1, H0594: 1, H0266: 1, H0416: 1, H0188: 1, S0318: 1, S0334: 1, H0687: 1, S0338: 1, H0252: 1, H0213: 1, H0553: 1, H0111: 1, H0617: 1, H0169: 1, T0067: 1, L0435: 1, L0564: 1, S0440: 1, H0509: 1, S0150: 1, H0646: 1, H0652: 1, L0371: 1, L0769: 1, L0771: 1, L0649: 1, L0774: 1, L0375: 1, L0651: 1, L0378: 1, L0805: 1, L0606: 1, L0657: 1, L0384: 1, L0529: 1, L0543: 1, L0793: 1, L0664: 1, S0216: 1, H0144: 1, H0723: 1, H0593: 1, H0689: 1, H0659: 1, H0672: 1, S0328: 1, H0539: 1, H0518: 1, H0521: 1, H0696: 1, H0134: 1, L0612: 1, S3012: 1, S0390: 1, S0037: 1, S3014: 1, S0032: 1, L0743: 1, L0749: 1, L0752: 1, L0755: 1, H0707: 1,
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1979	HPWTF23	844775	1989	283 - 675	4586	Val-80 to Leu-92, Ser-98 to Lys-104, Pro-111 to Pro-122.	L0591: 1, L0592: 1, H0653: 1, H0136: 1 and S0412: 1. AR089: 52, AR316: 31, AR060: 10 H0710: 28, L0659: 18, L0747: 18, H0656: 13, H0436: 10, H0271: 9, L0751: 9, S0474: 8, H0581: 8, H0179: 8, H0063: 8, L0731: 8, L0599: 8, H0650: 7, L0662: 7, L0756: 7, H0555: 6, S0354: 5, H0036: 5, H0590: 5, H0052: 5, L0770: 5, L0761: 5, S0428: 5, S0374: 5, L0439: 5, H0717: 4, H0393: 4, S0222: 4, H0156: 4, H0309: 4, S0312: 4, S0314: 4, H0090: 4, H0591: 4, L0637: 4, L0776: 4, L0783: 4, L0438: 4, L0757: 4, H0543: 4, H0716: 3, H0662: 3, H0619: 3, H0392: 3, H0575: 3, H0004: 3, H0673: 3, S0364: 3, H0135: 3, H0059: 3, H0494: 3, L0667: 3, L0764: 3, L0803: 3, L0775: 3, L0655: 3, L0809: 3, L0666: 3, H0670: 3, L0744: 3, L0750: 3, L0779: 3, L0758: 3, L0759: 3, S0436: 3, H0556: 2, H0713: 2, S6024: 2, H0341: 2, S0282: 2, H0402: 2, S0442: 2, S0376: 2, S0360: 2, H0580: 2, H0329: 2, H0728: 2, H0645: 2, H0369: 2, H0486: 2, S0280: 2, H0042: 2, H0421: 2, H0545: 2, H0457: 2, H0620: 2, H0014: 2, S0051: 2, T0010: 2, S0340: 2, H0031: 2, H0644: 2, H0383: 2, H0674: 2, H0163: 2, H0551: 2, H0264: 2, H0488: 2, T0004: 2, S0438: 2, H0130: 2, H0647: 2, L0766: 2, L0517: 2, L0518: 2,		
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1980	HPWTF53	844737	1990	484 - 777	4587	Cys-64 to Lys-70.	L0647: 2, H0547: 2, H0660: 2, S0044: 2, S0027: 2, S0028: 2, L0748: 2, L0754: 2, L0745: 2, H0445: 2, S0434: 2, L0596: 2, L0588: 2, H0506: 2, H0170: 1, S0134: 1, L0414: 1, L0785: 1, S0212: 1, H0255: 1, S0358: 1, S0444: 1, H0637: 1, H0208: 1, S6022: 1, H0550: 1, H0609: 1, H0586: 1, H0333: 1, T0060: 1, H0427: 1, L0021: 1, L0022: 1, S0010: 1, S0346: 1, L0105: 1, H0318: 1, H0597: 1, H0150: 1, L0471: 1, H0011: 1, S0362: 1, H0373: 1, S0388: 1, H0354: 1, H0099: 1, H0594: 1, H0266: 1, H0416: 1, H0188: 1, S0318: 1, S0334: 1, H0687: 1, S0338: 1, H0252: 1, H0213: 1, H0553: 1, H0111: 1, H0617: 1, H0169: 1, T0067: 1, L0435: 1, L0564: 1, S0440: 1, H0509: 1, S0150: 1, H0646: 1, H0652: 1, L0371: 1, L0769: 1, L0771: 1, L0649: 1, L0774: 1, L0375: 1, L0651: 1, L0378: 1, L0805: 1, L0606: 1, L0657: 1, L0384: 1, L0529: 1, L0543: 1, L0793: 1, L0664: 1, S0216: 1, H0144: 1, H0723: 1, H0593: 1, H0689: 1, H0659: 1, H0672: 1, S0328: 1, H0539: 1, H0518: 1, H0521: 1, H0696: 1, H0134: 1, L0612: 1, S3012: 1, S0390: 1, S0037: 1, S3014: 1, S0032: 1, L0743: 1, L0749: 1, L0752: 1, L0755: 1, H0707: 1, L0591: 1, L0592: 1, H0653: 1, H0136: 1 and S0412: 1. H0650: 1, L0785: 1, S0282: 1, H0586: 1, H0318: 1, H0383:		
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1981	HPXAB56	638157	1991	73 - 165	4588	Lys-22 to Gly-29.	1, H0264: 1, L0804: 1, L0805: 1, L0776: 1, L0809: 1, L0789: 1, H0648: 1 and H0008: 1.		
1982	HPZAB75	842154	1992	42 - 152	4589	Ala-22 to Asp-33.	H0313: 1 and S0053: 1. L0747: 5, S0430: 1, H0331: 1, L0640: 1, L0783: 1, L0664: 1, H0648: 1, S0168: 1 and L0749: 1.	1q32	114208, 114208, 119300, 120620, 120620, 120920, 134370, 134370, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 600105, 600759, 601494, 601975
1983	HRAAB26	693244	1993	8 - 85	4590	Asn-19 to Ser-25.	H0431: 1 and H0555: 1.		
1984	HRAAC36	798104	1994	274 - 453	4591		AR089: 1, AR316: 1, AR060: 1 H0555: 1, H0576: 1, L0779: 1 and H0422: 1.		
1985	HRAAF59	847086	1995	103 - 252	4592	Thr-36 to Trp-44.	H0555: 1		
1986	HRAAG89	621271	1996	54 - 149	4593	Pro-2 to Gln-7.	L0775: 3, L0666: 3, L0749: 3, L0717: 2, H0615: 2, S0330: 2, L0747: 2, L0758: 2, H0624: 1, S0376: 1, H0587: 1, L0021: 1, L0105: 1, L0455: 1, H0494: 1, L0771: 1, L0662: 1, L0803: 1, L0375: 1, L0784: 1, L0809: 1, L0792: 1, L0663: 1, L0664: 1, L0665: 1, H0593: 1, H0658: 1, H0648: 1, H0555: 1 and L0779: 1.	7	
1987	HRAAO40	664500	1997	95 - 205	4594		H0555: 1		
1988	HRAAZ12	834637	1998	3201 - 3320	4595	Pro-26 to Gly-34.	L0740: 28, L0777: 15, L0731: 15, L0748: 14, L0747: 10, L0439: 8, L0750: 8, L0749: 7, L0756: 7, L0754: 6, H0622: 5, L0792: 5, H0090: 4, L0769: 4, H0135: 3, S0344: 3, L0662: 3, L0804: 3, L0805: 3,	2q34	100730, 118800, 123660, 135600, 157655, 186860, 201460, 205100, 262000, 601277, 601318

1989	HRABA19	621384	1999	175 - 189	4596			L0438: 3, L0597: 3, S0046: 2, H0333: 2, H0013: 2, H0427: 2, H0266: 2, H0551: 2, H0623: 2, L0761: 2, L0768: 2, L0803: 2, L0806: 2, L0789: 2, L0666: 2, H0547: 2, H0521: 2, H0522: 2, H0555: 2, S0206: 2, L0779: 2, L0759: 2, L0588: 2, L0599: 2, H0624: 1, H0663: 1, S0360: 1, S0045: 1, H0393: 1, S0278: 1, H0437: 1, H0431: 1, T0039: 1, H0575: 1, H0050: 1, L0471: 1, H0620: 1, S0051: 1, H0267: 1, H0039: 1, H0030: 1, H0316: 1, H0412: 1, H0056: 1, S0112: 1, L0564: 1, H0561: 1, H0641: 1, S0142: 1, L0770: 1, L0772: 1, L0800: 1, L0648: 1, L0794: 1, L0381: 1, L0375: 1, L0776: 1, L0807: 1, L0809: 1, L0790: 1, L0791: 1, H0144: 1, H0693: 1, L0352: 1, S0330: 1, S0378: 1, H0134: 1, L0741: 1, L0786: 1, S0260: 1, L0592: 1, L0581: 1, H0543: 1 and H0506: 1.
1990	HRABP28	823344	2000	224 - 331	4597			H0644: 1, L0646: 1, H0555: 1, L0779: 1 and L0758: 1.
1991	HRABU56	621381	2001	268 - 420	4598	Lys-44 to Gly-50.		H0264: 1, L0523: 1, H0555: 1, L0748: 1 and H0445: 1.
1992	HRABZ80	562230	2002	207 - 353	4599			H0373: 1, L0807: 1, L0647: 1, H0693: 1, H0547: 1, H0555: 1, S0028: 1, L0748: 1, L0749: 1 and L0759: 1.
1993	HRACB01	637647	2003	150 - 215	4600			AR060: 2, AR316: 2, AR089: 2 H0555: 1, S3014: 1, L0748: 1, L0749: 1 and H0423: 1.
								AR089: 2, AR316: 1, AR060: 1

1994	HRACI39	840461	2004	124 - 216	4601			L0749: 2 and H0555: 1.		
1995	HRADU15	801926	2005	304 - 444	4602	Arg-7 to Arg-14, Tyr-38 to Glu-43.		H0555: 1 AR089: 6, AR316: 4, AR060: 3 S0476: 1, H0555: 1, L0596: 1 and L0362: 1.		
1996	HRDAH04	651356	2006	147 - 221	4603			H0265: 3, H0013: 1, H0124: 1 and L0748: 1.		
1997	HRDBA20	637709	2007	87 - 224	4604			AR089: 9, AR316: 7, AR060: 5 H0124: 2 and L0527: 1.		
1998	HRDBD32	637710	2008	86 - 223	4605			AR089: 4, AR316: 4, AR060: 3 H0124: 2 and L0527: 1.		
1999	HRDBL01	631169	2009	248 - 364	4606			AR089: 16, AR316: 13, AR060: 10 H0124: 1, H0100: 1 and S0112: 1.		
2000	HRDDM85	799542	2010	281 - 334	4607			AR089: 16, AR316: 12, AR060: 9 H0124: 1		
2001	HRDDS22	702017	2011	235 - 369	4608			AR089: 24, AR316: 21, AR060: 18 L0747: 14, L0748: 12, S0010: 10, L0439: 9, L0438: 8, L0740: 8, S0222: 7, L0777: 7, L0731: 7, H0575: 5, H0318: 5, H0441: 4, H0251: 4, L0766: 4, L0666: 4, L0741: 4, L0742: 4, L0591: 4, L0599: 4, H0052: 3, S0051: 3, T0010: 3, S0036: 3, L0763: 3, L0755: 3, S0031: 3, S6024: 2, H0597: 2, H0059: 2, L0770: 2, L0667: 2, L0775: 2, L0659: 2, L0809: 2, L0745: 2, L0750: 2, L0752: 2, L0758: 2, L0589: 2, S0424: 2, H0170: 1, H0171: 1, H0265: 1, H0650: 1, L0416: 1, S0116: 1, S0001:		

2002	HRDEJ86	695755	2012	203 - 286	4609	Phe-18 to Ala-23.	<p>1, H0254: 1, L0005: 1, S0360: 1, L0717: 1, S6014: 1, S0005: 1, H0574: 1, H0632: 1, H0599: 1, S0346: 1, H0309: 1, H0123: 1, L0471: 1, H0014: 1, H0510: 1, S6028: 1, L0051: 1, L0483: 1, L0455: 1, H0124: 1, H0068: 1, S0366: 1, H0163: 1, H0268: 1, H0100: 1, T0042: 1, H0509: 1, S0150: 1, H0130: 1, L0369: 1, L0638: 1, L0372: 1, L0764: 1, L0771: 1, L0662: 1, L0650: 1, L0375: 1, L0651: 1, L0806: 1, L0776: 1, L0532: 1, H0144: 1, H0547: 1, H0659: 1, H0658: 1, H0670: 1, H0648: 1, S3014: 1, S0027: 1, L0744: 1, L0780: 1, L0757: 1, L0759: 1, L0581: 1, S0011: 1, H0423: 1 and H0008: 1.</p>			
							<p>AR089: 36, AR316: 27, AR060: 18</p> <p>L0745: 14, L0519: 3, S0222: 2, H0144: 2, L0746: 2, L0589: 2, L0604: 2, H0265: 1, S0212: 1, H0125: 1, S0356: 1, S0444: 1, S0360: 1, T0008: 1, S0007: 1, H0619: 1, L0717: 1, H0549: 1, H0438: 1, T0060: 1, H0013: 1, H0575: 1, H0618: 1, S0010: 1, H0251: 1, H0009: 1, H0050: 1, H0028: 1, H0252: 1, H0030: 1, H0032: 1, H0124: 1, H0063: 1, T0004: 1, H0625: 1, H0132: 1, S0002: 1, L0638: 1, L0637: 1, L0773: 1, L0662: 1, L0561: 1, L0559: 1, L0663: 1, H0520: 1, H0547: 1, H0672: 1, H0555: 1, S3014: 1, S0028: 1, S0032: 1, L0740: 1, L0755: 1, S0031: 1.</p>			

2003	HRDEQ34	825181	2013	67 - 126	4610				1, S0436: 1 and H0543: 1. H0124: 1			
2004	HRDFE30	750872	2014	1193 - 1318	4611				AR089: 28, AR316: 25, AR060: 22 L0758: 6, L0766: 5, L0749: 5, L0750: 5, H0622: 4, L0748: 4, H0124: 3, L0731: 3, S0134: 2, S0420: 2, H0013: 2, H0327: 2, H0687: 2, H0169: 2, L0761: 2, L0806: 2, H0658: 2, L0747: 2, L0596: 2, L0599: 2, T0049: 1, S0360: 1, H0619: 1, H0351: 1, L0622: 1, H0427: 1, H0318: 1, H0581: 1, H0051: 1, H0604: 1, H0031: 1, H0617: 1, H0316: 1, H0090: 1, H0264: 1, H0488: 1, H0412: 1, H0100: 1, S0438: 1, S0440: 1, L0770: 1, L0637: 1, L0764: 1, L0771: 1, L0773: 1, L0803: 1, L0659: 1, L0789: 1, L0663: 1, H0547: 1, H0684: 1, H0672: 1, S0380: 1, H0436: 1, L0439: 1, L0754: 1, L0779: 1, H0343: 1, L0592: 1, L0603: 1, H0543: 1 and H0422: 1.	20		
2005	HRDFT83	606799	2015	51 - 155	4612				H0124: 5, L0367: 1, L0748: 1 and L0749: 1.			
2006	HRGCA01	589970	2016	75 - 155	4613				AR089: 11, AR316: 9, AR060: 7 H0124: 1 and H0134: 1.			
2007	HRGCA06	866189	2017	74 - 487	4614	Cys-26 to Phe-31, Asn-39 to Gly-45, Asp-55 to Gly-62, Glu-108 to Ala-115, Gln-123 to Thr-137.			L0766: 7, L0777: 4, H0599: 3, L0751: 3, L0759: 3, H0663: 2, S0360: 2, S0046: 2, H0494: 2, L0769: 2, L0657: 2, S0126: 2, H0658: 2, L0755: 2, L0758: 2, L0588: 2, L0605: 2, H0265: 1, T0049: 1, H0657: 1, S0418: 1, S0420: 1, S0354: 1, S0358: 1, S0376: 1, H0675: 1, S0045:	10q22.1	129010, 176801, 176801, 601493	

2008	HRGSE38	898233	2018	50 - 370	4615	Gly-24 to Gly-36, Gly-48 to Arg-57, Ala-61 to Gln-66, Lys-82 to Lys-98.	1, H0645: 1, H0370: 1, H0618: 1, S0049: 1, T0115: 1, H0530: 1, H0375: 1, H0286: 1, H0181: 1, H0135: 1, H0412: 1, T0042: 1, H0633: 1, S0144: 1, S0002: 1, H0529: 1, L0763: 1, L0770: 1, L0638: 1, L0639: 1, L0627: 1, L0773: 1, L0768: 1, L0387: 1, L0774: 1, L0806: 1, L0776: 1, L0519: 1, L0663: 1, L0665: 1, H0519: 1, H0539: 1, S0380: 1, S0152: 1, H0521: 1, H0696: 1, H0134: 1, H0555: 1, S0032: 1, L0589: 1, S0026: 1, H0653: 1, H0667: 1, H0542: 1 and S0424: 1.	1pter-p12	
2009	HRLAT43	795038	2019	158 - 223	4616		H0136: 1. H0396: 1		
2010	HRLME03	610614	2020	162 - 272	4617	Ser-21 to Phe-32.	H0480: 1		
2011	HROAN20	732148	2021	254 - 331	4618		S0045: 1, H0316: 1 and		

									L0373: 1.			
2012	HROAP64	835467	2022	181 - 288	4619				AR060: 8, AR316: 7, AR089: 6 H0316: 1			
2013	HROAS35	827304	2023	152 - 247	4620				AR060: 838, AR316: 546, AR089: 233 H0316: 1			
2014	HROAY16	827305	2024	242 - 337	4621				AR060: 1 H0316: 1			
2015	HROBJ10	836368	2025	108 - 281	4622				AR089: 11, AR316: 11, AR060: 11			
2016	HROBW46	801952	2026	395 - 529	4623				H0581: 1, H0598: 1 and L0662: 1.			
2017	HRODG86	834320	2027	320 - 364	4624				AR060: 7, AR316: 6, AR089: 4			
2018	HRSAL26	637654	2028	82 - 174	4625		Thr-22 to Lys-31.		H0395: 1, L0762: 1, L0775: 1 and L0790: 1.			
2019	HRTAE88	822964	2029	266 - 361	4626				T0008: 1	3pter-3p25.1		
2020	HRTAP63	780698	2030	959 - 1087	4627		Asn-2 to Trp-13.		AR089: 26, AR316: 21, AR060: 17 L0758: 15, L0731: 13, L0752: 12, L0755: 9, L0766: 8, H0641: 7, S0474: 6, H0038: 6, H0521: 6, L0439: 6, H0179: 5, L0662: 5, L0655: 5, L0748: 5, L0777: 5, L0759: 5, H0638: 4, H0581: 4, H0457: 4, L0775: 4, L0809: 4, L0742: 4, L0754: 4, L0749: 4, L0757: 4, S0222: 3, L0666: 3, L0663: 3, S0053: 3, H0522: 3, H0436: 3, L0740: 3, L0750: 3, S0442: 2, H0580: 2, H0156: 2, L0021: 2, S0010: 2, H0014: 2, S0003: 2, S0214: 2, H0031: 2, H0090: 2, H0623: 2, S0002: 2, L0598: 2, L0764: 2, L0768: 2, L0774: 2, L0806: 2,	176830, 176830, 182601, 229800, 602134		



2021	HRTAR24	601378	2031	220 - 393	4628			2, L0653: 2, L0657: 2, L0659: 2, H0144: 2, H0539: 2, H0710: 2, S0027: 2, L0747: 2, L0779: 2, S0434: 2, L0592: 2, S0026: 2, H0170: 1, T0002: 1, H0717: 1, S0114: 1, S0218: 1, H0650: 1, H0657: 1, S0212: 1, S0418: 1, S0420: 1, S0408: 1, T0008: 1, H0722: 1, S0007: 1, S0046: 1, H0619: 1, H0351: 1, H0406: 1, S0278: 1, H0601: 1, H0586: 1, H0013: 1, H0427: 1, H0599: 1, H0590: 1, H0421: 1, S0049: 1, H0052: 1, H0545: 1, H0373: 1, H0510: 1, H0266: 1, H0271: 1, L0483: 1, T0006: 1, H0628: 1, H0169: 1, H0674: 1, H0163: 1, H0591: 1, H0616: 1, H0264: 1, H0272: 1, H0412: 1, H0494: 1, S0015: 1, S0144: 1, UNKNWN: 1, L0520: 1, L0637: 1, L0761: 1, L0667: 1, L0772: 1, L0641: 1, L0648: 1, L0521: 1, L0794: 1, L0649: 1, L0803: 1, L0805: 1, L0783: 1, L0384: 1, L0793: 1, L0664: 1, L0665: 1, S0052: 1, S0428: 1, S0216: 1, H0520: 1, S0126: 1, H0658: 1, H0670: 1, H0666: 1, H0672: 1, H0651: 1, L0355: 1, S0328: 1, S0406: 1, H0555: 1, S0032: 1, L0744: 1, L0745: 1, L0780: 1, L0588: 1, L0594: 1, L0362: 1, L0366: 1 and H0422: 1.		
								AR060: 5, AR316: 4, AR089: 2 T0008: 1 and S0428: 1.		
2022	HSAAN03	599334	2032	193 - 393	4629			Pro-30 to Glu-45.		
2023	HSAAAS05	703244	2033	115 - 231	4630					

2024	HSAAW13	821334	2034	246 - 314	4631		1 and H0445: 1. L0747: 6, L0766: 5, L0439: 5, S0410: 4, L0749: 4, L0756: 4, L0758: 4, S0408: 3, L0662: 3, L0803: 3, L0750: 3, L0777: 3, S0116: 2, S0444: 2, L0598: 2, L0763: 2, L0521: 2, L0804: 2, L0774: 2, L0775: 2, L0659: 2, S0374: 2, H0670: 2, L0743: 2, L0731: 2, H0624: 1, S0212: 1, S0418: 1, S0354: 1, H0580: 1, S0476: 1, S0222: 1, S6014: 1, H0441: 1, H0486: 1, T0039: 1, H0581: 1, H0309: 1, H0327: 1, H0051: 1, S0388: 1, S0051: 1, T0010: 1, H0375: 1, S0003: 1, L0483: 1, H0031: 1, L0142: 1, H0068: 1, H0040: 1, H0412: 1, H0509: 1, H0529: 1, L0761: 1, L0373: 1, L0372: 1, L0773: 1, L0375: 1, L0657: 1, L0809: 1, L0666: 1, L0438: 1, H0658: 1, H0521: 1, S0028: 1, L0744: 1, L0755: 1, L0608: 1, L0366: 1, S0194: 1 and S0196: 1.	15	
2025	HSABA15	827064	2035	110 - 241	4632	Thr-37 to Arg-43.	T0039: 1		
2026	HSABG81	753408	2036	466 - 594	4633		AR060: 5, AR316: 4, AR089: 3 H0457: 6, L0766: 6, L0794: 2, L0665: 2, L0439: 2, L0755: 2, H0295: 1, L0717: 1, H0600: 1, H0586: 1, T0039: 1, H0250: 1, H0553: 1, H0674: 1, H0100: 1, H0494: 1, L0770: 1, L0769: 1, L0768: 1, L0803: 1, L0805: 1, L0606: 1, L0788: 1, L0666: 1, H0682: 1, L0748: 1, L0749: 1, L0758: 1, H0445: 1 and L0596: 1.		
2027	HSATA50	562007	2037	211 - 264	4634		S0114: 2, S0045: 1, H0318: 1		

2028	HSATA61	801927	2038	132 - 230	4635			and H0251: 1. AR060: 7, AR316: 6, AR089: 5 S0410: 9, L0794: 4, L0779: 4, S0360: 3, L0752: 3, L0759: 3, H0295: 2, H0545: 2, L0742: 2, L0747: 2, H0713: 1, H0294: 1, S0114: 1, H0484: 1, H0483: 1, H0661: 1, H0402: 1, S0420: 1, S0358: 1, S0444: 1, S0007: 1, H0441: 1, H0036: 1, S0049: 1, H0031: 1, H0553: 1, H0181: 1, H0617: 1, H0334: 1, S0440: 1, L0770: 1, L0769: 1, L0803: 1, L0804: 1, L0809: 1, L0791: 1, H0593: 1, H0660: 1, S0037: 1, S0027: 1, S0028: 1, L0740: 1, L0786: 1, S0106: 1 and S0456: 1.				106165, 222900, 276902
2029	HSATG66	824903	2039	1815 - 1877	4636			AR089: 5, AR316: 5, AR060: 5 L0731: 17, L0766: 15, H0521: 15, H0457: 13, L0740: 9, H0486: 8, S0358: 6, S0474: 6, L0747: 6, H0423: 6, H0581: 5, L0754: 5, H0638: 4, L0779: 4, H0445: 4, S0134: 3, S0045: 3, S0374: 3, L0757: 3, L0485: 3, H0422: 3, S0040: 2, H0583: 2, S0360: 2, H0586: 2, H0574: 2, H0575: 2, H0050: 2, H0014: 2, H0328: 2, H0316: 2, S0036: 2, H0090: 2, S0422: 2, L0369: 2, L0764: 2, L0662: 2, L0792: 2, L0663: 2, L0665: 2, L0565: 2, H0519: 2, S0328: 2, H0518: 2, L0750: 2, L0758: 2, H0668: 2, H0624: 1, H0170: 1, H0171: 1, T0002: 1, S0114: 1, H0650: 1, H0657: 1, H0656: 1, H0341: 3q25				

									1, S0282: 1, H0669: 1, H0458: 1, H0459: 1, S0356: 1, S0132: 1, H0411: 1, S0222: 1, H0600: 1, H0592: 1, H0587: 1, T0039: 1, H0250: 1, S0280: 1, H0122: 1, H0004: 1, L0105: 1, H0318: 1, H0421: 1, H0196: 1, H0251: 1, H0046: 1, H0439: 1, L0471: 1, H0057: 1, H0015: 1, H0373: 1, H0083: 1, H0354: 1, H0266: 1, S0250: 1, S0003: 1, S0214: 1, H0252: 1, H0615: 1, L0483: 1, H0628: 1, H0598: 1, H0163: 1, H0591: 1, H0062: 1, H0551: 1, T0041: 1, H0560: 1, S0466: 1, H0130: 1, H0641: 1, H0646: 1, H0649: 1, S0210: 1, S0002: 1, H0695: 1, L0646: 1, L0648: 1, L0794: 1, L0803: 1, L0774: 1, L0784: 1, L0805: 1, L0655: 1, L0607: 1, L0527: 1, L0657: 1, L0659: 1, L0783: 1, L0809: 1, L0666: 1, L0664: 1, S0052: 1, S0428: 1, H0144: 1, H0365: 1, H0435: 1, H0651: 1, S0330: 1, S0380: 1, S0350: 1, H0436: 1, S0028: 1, L0748: 1, L0749: 1, L0756: 1, L0777: 1, S0260: 1, L0590: 1, L0591: 1, H0667: 1 and L0697: 1.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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2035	HSATZ02	490895	2045	246 - 257	4642				1, L0794: 1 and H0658: 1. S0022: 3, H0265: 1 and S0114: 1.				
2036	HSAUA95	604940	2046	62 - 178	4643	Leu-20 to Gly-25.			AR060: 8, AR316: 6, AR089: 5 L0754: 3, S0114: 1 and L0803: 1.				
2037	HSAUB89	600369	2047	161 - 271	4644				AR313: 12, AR226: 9, AR192: 9, AR060: 8, AR244: 8, AR186: 8, AR184: 8, AR293: 7, AR089: 7, AR205: 7, AR312: 7, AR182: 7, AR052: 7, AR271: 6, AR206: 6, AR299: 6, AR185: 6, AR243: 6, AR246: 6, AR238: 6, AR204: 6, AR183: 6, AR275: 6, AR269: 6, AR202: 6, AR241: 6, AR263: 5, AR249: 5, AR055: 5, AR053: 5, AR270: 5, AR273: 5, AR229: 5, AR198: 5, AR248: 5, AR218: 5, AR096: 5, AR316: 5, AR274: 5, AR240: 5, AR267: 5, AR227: 5, AR213: 5, AR300: 5, AR237: 5, AR292: 5, AR282: 5, AR247: 4, AR253: 4, AR061: 4, AR290: 4, AR296: 4, AR258: 4, AR219: 4, AR033: 4, AR286: 4, AR233: 4, AR039: 4, AR175: 4, AR294: 4, AR285: 4, AR104: 4, AR231: 3, AR268: 3, AR177: 3, AR259: 3,				

2038	HSAUJ53	866191	2048	22 - 141	4645			AR277: 3, AR309: 3, AR234: 3, AR251: 3, AR298: 3, AR265: 3, AR295: 3, AR291: 3, AR284: 3, AR289: 3, AR280: 3, AR283: 3, AR256: 2, AR232: 2, AR179: 2, AR310: 2, AR314: 2, AR266: 1, AR315: 1 H0486: 12, L0794: 9, L0605: 7, L0655: 5, L0804: 4, H0318: 3, L0663: 3, L0747: 3, H0485: 2, L0809: 2, H0445: 2, S0114: 1, H0583: 1, H0254: 1, S0358: 1, S0376: 1, S0444: 1, S0408: 1, H0722: 1, H0370: 1, H0004: 1, H0264: 1, S0294: 1, L0767: 1, L0768: 1, L5568: 1, L0775: 1, L0805: 1, L0791: 1, L0665: 1, H0689: 1, H0672: 1, S0004: 1, L0749: 1, L0777: 1, L0759: 1, H0444: 1, S0458: 1 and H0506: 1.		
2039	HSAUV74	866193	2049	169 - 219	4646			AR089: 35, AR316: 25, AR060: 15 S0114: 1 H0584: 31, L0779: 10, L0748: 7, L0758: 7, L0743: 6, S0356: 5, L0744: 5, L0747: 5, S0007: 4, H0052: 4, H0150: 4, L0769: 4, L0751: 4, H0556: 3, L0776: 3, L0665: 3, H0542: 3, H0167: 2, H0294: 2, H0656: 2, H0370: 2, H0599: 2, H0618: 2, H0178: 2, L0157: 2, H0594: 2, H0617: 2, T0041: 2, H0494: 2, S0150: 2, L0772: 2, L0764: 2, L0648: 2, L0662: 2, L0783: 2, S0380: 2, L0439: 2, L0755: 2,		

2040	HSAUX39	823161	2050	98 - 205	4647				L0604: 2, L0593: 2, H0624: 1, H0171: 1, S0040: 1, S0114: 1, H0657: 1, H0381: 1, S0116: 1, H0306: 1, H0402: 1, S0358: 1, S0408: 1, S0045: 1, S0046: 1, H0411: 1, S0278: 1, S0222: 1, H0587: 1, H0333: 1, H0574: 1, H0486: 1, H0575: 1, H0253: 1, T0048: 1, H0546: 1, H0045: 1, H0123: 1, H0012: 1, H0024: 1, S0050: 1, H0373: 1, L0163: 1, H0051: 1, H0510: 1, H0292: 1, S0214: 1, H0688: 1, T0006: 1, H0417: 1, H0166: 1, H0674: 1, H0316: 1, H0040: 1, H0063: 1, H0623: 1, H0059: 1, H0102: 1, H0100: 1, S0112: 1, H0625: 1, H0641: 1, H0652: 1, S0002: 1, S0426: 1, H0529: 1, L0763: 1, L0761: 1, L0667: 1, L0373: 1, L0646: 1, L0644: 1, L0771: 1, L0768: 1, L0766: 1, L0650: 1, L0774: 1, L0775: 1, L0806: 1, L0657: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1, S0374: 1, T0068: 1, H0682: 1, H0435: 1, H0539: 1, H0522: 1, S0013: 1, S0044: 1, H0555: 1, L0742: 1, L0777: 1, L0759: 1, H0445: 1, L0686: 1, L0592: 1, S0011: 1, H0136: 1, H0008: 1 and H0352: 1.	
2041	HSAVA58	866194	2051	376 - 399	4648				S0114: 1 H0171: 2, S0114: 1, H0657: 1, H0575: 1 and S0308: 1.	
2042	HSAVE52	600370	2052	179 - 247	4649				S0114: 1, H0589: 1, H0637: 1 and H0635: 1.	
2043	HSAVH32	603367	2053	63 - 158	4650	Met-1 to Pro-7.			S0114: 1	
2044	HSAVM49	800279	2054	236 - 313	4651	Phe-11 to Asp-25.			AR060: 6, AR235: 6,	

					AR169: 5, AR183: 5, AR228: 5, AR181: 4, AR176: 4, AR162: 4, AR161: 4, AR316: 4, AR163: 4, AR178: 4, AR182: 4, AR243: 4, AR309: 4, AR269: 4, AR271: 4, AR312: 4, AR177: 4, AR274: 4, AR266: 4, AR053: 4, AR261: 3, AR089: 3, AR272: 3, AR257: 3, AR180: 3, AR204: 3, AR254: 3, AR268: 3, AR300: 3, AR264: 3, AR165: 3, AR253: 3, AR289: 3, AR193: 3, AR233: 3, AR267: 3, AR166: 3, AR229: 3, AR216: 3, AR164: 3, AR173: 3, AR237: 3, AR299: 3, AR096: 3, AR196: 3, AR192: 3, AR247: 3, AR175: 3, AR283: 3, AR239: 3, AR293: 3, AR291: 3, AR295: 3, AR061: 3, AR285: 2, AR168: 2, AR294: 2, AR179: 2, AR255: 2, AR262: 2, AR286: 2, AR236: 2, AR223: 2, AR214: 2, AR308: 2, AR231: 2, AR170: 2, AR288: 2, AR201: 2, AR190: 2, AR275: 2, AR277: 2, AR287: 2, AR297: 2, AR290: 2, AR224: 2, AR185: 2, AR270: 2, AR263: 2, AR234: 2,
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									AR226: 2, AR191: 2, AR203: 2, AR171: 2, AR240: 2, AR213: 2, AR313: 2, AR227: 2, AR258: 2, AR205: 2, AR230: 2, AR055: 2, AR256: 2, AR212: 2, AR189: 2, AR218: 1, AR033: 1, AR246: 1, AR232: 1, AR225: 1, AR260: 1, AR238: 1, AR104: 1, AR199: 1, AR282: 1, AR311: 1, AR174: 1, AR197: 1, AR221: 1, AR252: 1, AR198: 1 S0114: 1, S0216: 1 and L0747: 1.			
2045	HSAVO11	566467	2055	208 - 276	4652				S0114: 1 and S0001: 1.			
2046	HSAVO17	738007	2056	727 - 843	4653				AR089: 49, AR316: 35, AR060: 22 S0114: 1, H0518: 1 and S0276: 1.			
2047	HSAVQ13	606818	2057	18 - 116	4654		Thr-18 to His-23.		S0114: 1			
2048	HS AVR85	786185	2058	507 - 518	4655				AR089: 31, AR316: 22, AR060: 13 L0493: 21, L0514: 14, S0408: 7, L0803: 7, L0731: 7, L0809: 6, L0471: 5, S0372: 5, L0515: 5, L0547: 5, H0547: 5, H0521: 5, L0759: 5, L0590: 5, H0543: 5, S0360: 4, L0507: 4, L0766: 4, L0776: 4, H0494: 3, L0504: 3, L0769: 3, L0510: 3, H0696: 3, L0752: 3, H0445: 3, L0485: 3, L0002: 2, H0341: 2, S0420: 2, H0580: 2, H0586: 2, S0280: 2, H0545: 2, S0364: 2, T0042: 2, H0641: 2, L0648: 2, L0794: 2, L5574: 2, L0650: 2,	19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716	

Figure 1 consists of 12 histograms arranged in a 6x2 grid. The columns are labeled 'n = 10' and 'n = 20'. The rows are labeled 'm = 10', 'm = 20', 'm = 30', 'm = 40', 'm = 50', and 'm = 60'. Each histogram shows the frequency of the number of non-zero elements in the vector  $x$ . The x-axis for each histogram is labeled 'Number of non-zero elements' and ranges from 0 to  $n$ . The y-axis is labeled 'Frequency' and ranges from 0 to 10. The distributions are roughly bell-shaped and centered around  $n/2$ . As  $m$  increases, the distributions become narrower and taller.

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2050	HSAVZ05	690151	2060	653 - 694	4657			AR310: 4, AR186: 4, AR275: 4, AR206: 4, AR055: 3, AR060: 3, AR267: 3, AR309: 3, AR274: 3, AR270: 3, AR052: 3, AR205: 3, AR053: 3, AR185: 3, AR282: 3, AR268: 3, AR213: 2, AR273: 2, AR202: 2, AR182: 2, AR300: 2, AR265: 2, AR061: 2, AR313: 2, AR277: 2, AR243: 2, AR266: 2, AR312: 2, AR244: 2, AR316: 2, AR296: 2, AR104: 2, AR290: 2, AR283: 2, AR269: 2, AR286: 2, AR033: 2, AR089: 2, AR192: 1, AR289: 1, AR039: 1, AR294: 1, AR183: 1, AR298: 1, AR177: 1, AR293: 1, AR247: 1, AR251: 1, AR299: 1, AR291: 1 S0114: 1, S0010: 1, H0264: 1 and L0766: 1.		
								AR089: 60, AR316: 43, AR060: 27 S0114: 1, H0357: 1 and L0523: 1.		
2051	HSAWB58	738018	2061	121 - 270	4658			S0114: 1		
2052	HSAWH36	581087	2062	101 - 190	4659			S0114: 1		
2053	HSAWM20	606840	2063	126 - 212	4660			S0114: 1		
2054	HSAWM74	866195	2064	223 - 243	4661			AR089: 33, AR316: 31, AR060: 29 L0744: 11, S0007: 10, H0617: 10, L0747: 9, H0673: 8, H0597: 6, L0809: 6, H0683:	17	

[illegible]

2055	HSAWX70	872498	2065	1363 - 1536	4662	Gly-50 to Asp-57.	1, L0378: 1, L0806: 1, L0658: 1, L0659: 1, L0518: 1, L0783: 1, L0788: 1, S0053: 1, H0691: 1, H0519: 1, S0126: 1, H0689: 1, H0660: 1, S0330: 1, H0696: 1, S0404: 1, H0576: 1, S3014: 1, S0206: 1, L0742: 1, L0743: 1, L0749: 1, L0752: 1, H0445: 1, L0589: 1, L0592: 1, L0608: 1, H0422: 1, H0008: 1 and H0293: 1.		
2056	HSAXC22	606842	2066	59 - 154	4663		AR205: 5, AR207: 4, AR161: 3, AR217: 3, AR252: 3, AR169: 3, AR215: 2, AR282: 2, AR225: 2, AR053: 2, AR274: 2, AR089: 2, AR198: 2, AR162: 2, AR171: 1, AR213: 1, AR293: 1, AR165: 1, AR264: 1, AR286: 1, AR183: 1, AR311: 1, AR060: 1		
2057	HSAXL10	598726	2067	104 - 313	4664	Met-1 to Gly-6, Pro-32 to Ser-37, Ser-57 to Glu-62.	L0794: 5, L0766: 4, S0003: 2, L0747: 2, L0777: 2, L0591: 2, L0604: 2, H0556: 1, S0114: 1, H0657: 1, S0356: 1, H0619: 1, H0408: 1, H0591: 1, T0041: 1, L0520: 1, L0803: 1, H0547: 1, H0539: 1, S0152: 1, L0779: 1, L0758: 1, H0543: 1 and H0422: 1.		
2058	HSAXL49	606826	2068	86 - 115	4665		S0114: 1		
2059	HSAXL82	566801	2069	164 - 286	4666		S0114: 1, S0376: 1, L0369: 1, L0527: 1, L0663: 1, H0444: 1 and L0599: 1.		
2060	HSAZN57	604946	2070	90 - 152	4667		S0114: 1		
							S0114: 1		
							L0749: 2, S0114: 1, L0520: 1		

2061	HSAXO45	812767	2071	260 - 364	4668	Ser-28 to Arg-34.	and L0805: 1. AR060: 17, AR316: 13, AR089: 8 S0114: 1		
2062	HSAXS06	668260	2072	158 - 268	4669		H0685: 1, S0114: 1, S0134: 1 and S0218: 1.		
2063	HSAXS22	608308	2073	20 - 127	4670		S0114: 1		
2064	HSAYL24	608642	2074	151 - 339	4671		S0114: 2		
2065	HSAYO82	824712	2075	139 - 264	4672	Lys-33 to His-41.	S0114: 1, S0134: 1 and H0156: 1.		
2066	HSAYR62	751035	2076	1900 - 1971	4673		AR089: 6, AR316: 6, AR060: 6 L0438: 14, L0748: 14, L0439: 9, L0731: 8, H0556: 7, L0740: 6, L0750: 6, L0752: 6, H0013: 5, L0747: 5, T0082: 4, H0040: 4, L0662: 4, H0144: 4, H0591: 3, H0063: 3, L0763: 3, L0764: 3, L0742: 3, L0757: 3, L0758: 3, H0171: 2, S0356: 2, S0360: 2, S0046: 2, L0717: 2, H0411: 2, H0635: 2, S0010: 2, H0023: 2, H0135: 2, H0272: 2, S0370: 2, L0598: 2, L0769: 2, L0774: 2, L0665: 2, S0330: 2, S0136: 2, L0745: 2, H0445: 2, S0242: 2, H0423: 2, H0624: 1, H0265: 1, H0685: 1, S0114: 1, S0134: 1, H0583: 1, H0650: 1, H0657: 1, H0656: 1, H0341: 1, S0282: 1, H0662: 1, H0305: 1, T0008: 1, S0132: 1, H0619: 1, H0351: 1, S0222: 1, H0370: 1, H0587: 1, H0497: 1, H0331: 1, H0590: 1, H0618: 1, S0346: 1, H0052: 1, H0596: 1, H0051: 1, H0510: 1, H0271: 1, S0003: 1, T0006: 1, H0030: 1, L0055: 1, H0674: 1, H0316: 1, H0090: 1.		

2067	HSAZP90	793733	2077	136 - 282	4674			H0623: 1, H0059: 1, S0464: 1, S0438: 1, H0130: 1, S0426: 1, L0762: 1, L0770: 1, L0772: 1, L0646: 1, L0765: 1, L0771: 1, L0363: 1, L0767: 1, L0766: 1, L0560: 1, L0803: 1, L0775: 1, L0659: 1, L0809: 1, L0791: 1, L0666: 1, L0663: 1, L0664: 1, H0520: 1, H0547: 1, H0690: 1, H0659: 1, H0539: 1, S0152: 1, S3014: 1, L0749: 1, L0777: 1, L0755: 1, S0260: 1, L0591: 1, H0667: 1 and S0196: 1.		
2068	HSBAJ47	842694	2078	173 - 286	4675			AR060: 7, AR316: 5, AR089: 3 S0114: 1 L0754: 8, S0408: 5, L0770: 4, L0662: 4, H0657: 3, L0766: 3, T0040: 2, S0051: 2, L0598: 2, H0650: 1, S0442: 1, H0329: 1, S0222: 1, L0586: 1, H0156: 1, H0581: 1, H0052: 1, H0546: 1, H0046: 1, H0570: 1, H0014: 1, S0388: 1, H0553: 1, H0641: 1, L0803: 1, L0804: 1, L0774: 1, L0651: 1, S0148: 1, H0547: 1, S0126: 1, H0522: 1, H0696: 1, L0604: 1, H0543: 1, H0423: 1 and H0422: 1.	14q22.1-q22.3	112262, 182600, 182870, 182870, 600225, 600225
2069	HSDBI90	853376	2079	218 - 262	4676			AR060: 4, AR316: 3, AR089: 2 L0439: 5, L0438: 2, S6024: 1, H0052: 1, H0009: 1, H0051: 1, H0424: 1, S0352: 1, L0794: 1, L0803: 1, L0790: 1 and S0106: 1.		
2070	HSDDC55	663277	2080	116 - 214	4677			S0031: 1		
2071	HSDEA26	822812	2081	246 - 377	4678		Phe-28 to Arg-33.	H0052: 1 and S0031: 1.		
2072	HSDEY39	655366	2082	88 - 195	4679		Arg-21 to Ser-35.	S0031: 1		

2073	hsdff72	637662	2083	192 - 260	4680			L0766: 4, H0624: 1, S0114: 1, S0356: 1, H0251: 1, H0615: 1, L0792: 1, L0663: 1, H0593: 1, H0672: 1, L0746: 1 and S0031: 1.		
2074	HSDFO08	605008	2084	74 - 169	4681			L0748: 3, L0754: 3, L0749: 3 and S0031: 1.		
2075	HSDFR10	853377	2085	167 - 241	4682			L0777: 7, L0740: 5, L0755: 5, L0779: 2, S0360: 1, H0046: 1, L0471: 1, H0014: 1, S0036: 1, L0803: 1, L0756: 1 and S0031: 1.		
2076	HSDGB20	608309	2086	217 - 312	4683			S0031: 1		
2077	HSDGH56	853379	2087	76 - 126	4684			AR089: 12, AR316: 10, AR060: 8 S0216: 7, S0053: 6, H0346: 4, H0305: 3, H0615: 2, S0052: 2, L0589: 2, L0599: 2, H0556: 1, S0114: 1, S0001: 1, H0306: 1, S0360: 1, H0632: 1, T0082: 1, H0318: 1, H0581: 1, H0634: 1, S0428: 1, H0519: 1, S0152: 1, L0779: 1, S0031: 1, H0343: 1 and L0596: 1.		
2078	HSDGM01	608310	2088	71 - 178	4685		Lys-30 to Pro-35.	S0031: 1		
2079	HSDGM42	870143	2089	765 - 2639	4686		Asn-45 to Leu-50, Ser-140 to Gln-148, Asn-236 to Gln-243, Ser-259 to Lys-266, Ser-300 to Arg-307, Arg-429 to Val-434, His-448 to Phe-454, Glu-469 to Gln-476, Leu-506 to Leu-512, Arg-586 to Phe-597.	AR244: 9, AR312: 7, AR309: 7, AR313: 7, AR265: 7, AR263: 7, AR310: 7, AR183: 6, AR247: 6, AR053: 6, AR192: 6, AR204: 6, AR052: 6, AR271: 6, AR096: 5, AR243: 5, AR249: 5, AR202: 5, AR186: 5, AR274: 5, AR246: 5, AR213: 5, AR033: 5, AR248: 5, AR198: 4, AR060: 4, AR295: 4, AR206: 4,	16	



								AR275: 4, AR299: 4, AR269: 4, AR273: 4, AR219: 4, AR218: 4, AR104: 4, AR316: 4, AR282: 4, AR315: 4, AR039: 4, AR089: 4, AR194: 4, AR253: 4, AR205: 4, AR293: 3, AR185: 3, AR175: 3, AR240: 3, AR314: 3, AR061: 3, AR234: 3, AR055: 3, AR229: 3, AR292: 3, AR294: 3, AR231: 3, AR267: 3, AR270: 3, AR268: 3, AR177: 2, AR184: 2, AR283: 2, AR277: 2, AR291: 2, AR226: 2, AR233: 2, AR238: 2, AR300: 2, AR237: 2, AR266: 2, AR256: 2, AR227: 2, AR280: 2, AR259: 2, AR232: 2, AR258: 2, AR290: 2, AR296: 1, AR182: 1, AR179: 1, AR281: 1, AR241: 1, AR298: 1, AR286: 1 H0271: 10, H0556: 7, L0731: 7, H0494: 5, L0766: 5, L0777: 5, H0622: 4, L0805: 4, L0741: 4, L0743: 4, L0744: 4, L0749: 4, H0619: 3, H0333: 3, H0179: 3, H0416: 3, S0440: 3, L0804: 3, H0519: 3, H0539: 3, H0521: 3, L0740: 3, L0758: 3, H0542: 3, H0543: 3, H0458: 2, L0717: 2, H0592: 2, H0618: 2, H0318: 2, T0041: 2, H0529: 2, L0769: 2, L0667: 2, L0643: 2, L0521:
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2080	HSDGM42	824916	2090	67 - 174	4687	Arg-23 to Arg-30.	AR244: 9, AR312: 7, 16	2, L0794: 2, L0776: 2, L0659: 2, L0789: 2, H0520: 2, S0126: 2, S014: 2, L0742: 2, L0747: 2, L0755: 2, L0759: 2, L0591: 2, L0581: 2, H0624: 1, S0040: 1, S0342: 1, S0402: 1, S0114: 1, S0134: 1, H0656: 1, H0255: 1, H0661: 1, H0402: 1, H0638: 1, S0420: 1, S0354: 1, S0360: 1, S0132: 1, S6026: 1, H0549: 1, S0222: 1, S6014: 1, H0392: 1, H0455: 1, H0642: 1, H0331: 1, H0632: 1, T0040: 1, H0013: 1, H0599: 1, L0022: 1, H0581: 1, S0049: 1, H0052: 1, H0251: 1, H0204: 1, H0544: 1, H0046: 1, H0457: 1, L0157: 1, H0050: 1, H0014: 1, S0051: 1, H0099: 1, H0188: 1, H0288: 1, H0286: 1, H0428: 1, L0483: 1, H0031: 1, H0553: 1, H0181: 1, H0617: 1, S0366: 1, H0040: 1, H0616: 1, H0551: 1, H0623: 1, T0042: 1, L0475: 1, H0334: 1, H0560: 1, H0625: 1, H0509: 1, H0647: 1, H0646: 1, S0344: 1, H0538: 1, L0762: 1, L0763: 1, L0637: 1, L0372: 1, L0800: 1, L0626: 1, L0803: 1, L0774: 1, L0378: 1, L0655: 1, L0657: 1, L0809: 1, L0647: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0690: 1, H0672: 1, H0709: 1, H0696: 1, H0187: 1, H0436: 1, H0478: 1, S0037: 1, S0028: 1, L0439: 1, L0779: 1, L0780: 1, L0752: 1, S0031: 1, S0434: 1, S0436: 1, L0595: 1, L0601: 1, S0011: 1, H0668: 1 and H0677: 1.	
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2081	HSDGM42	852473	2091	940 - 978	4688			1, L0372: 1, L0800: 1, L0626: 1, L0803: 1, L0774: 1, L0378: 1, L0655: 1, L0657: 1, L0809: 1, L0647: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0690: 1, H0672: 1, H0709: 1, H0696: 1, H0187: 1, H0436: 1, H0478: 1, S0037: 1, S0028: 1, L0439: 1, L0779: 1, L0780: 1, L0752: 1, S0031: 1, S0434: 1, S0436: 1, L0595: 1, L0601: 1, S0011: 1, H0668: 1 and H0677: 1.			
								AR244: 9, AR312: 7, AR309: 7, AR313: 7, AR265: 7, AR263: 7, AR310: 7, AR183: 6, AR247: 6, AR053: 6, AR192: 6, AR204: 6, AR052: 6, AR271: 6, AR096: 5, AR243: 5, AR249: 5, AR202: 5, AR186: 5, AR274: 5, AR246: 5, AR213: 5, AR033: 5, AR248: 5, AR198: 4, AR060: 4, AR295: 4, AR206: 4, AR275: 4, AR299: 4, AR269: 4, AR273: 4, AR219: 4, AR218: 4, AR104: 4, AR316: 4, AR282: 4, AR315: 4, AR039: 4, AR089: 4, AR194: 4, AR253: 4, AR205: 4, AR293: 3, AR185: 3, AR175: 3, AR240: 3, AR314: 3, AR061: 3, AR234: 3, AR055: 3, AR229: 3, AR292: 3, AR294: 3, AR231: 3, AR267: 3,	16		

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2082	HSDGM42	861925	2092	399 - 2699	4689	Arg-27 to Ser-32, Pro-51 to Tyr-56, Glu-114 to Gln-134, Asn-187 to Leu-192, Ser-282 to Gln-290, Asn-378 to Gln-385, Ser-401 to Lys-408, Ser-442 to Arg-449, Arg-571 to Val-576, His-590 to Phe-596, Glu-611 to Gln-618, Leu-648 to Leu-654, Arg-728 to Phe-739.	1, S0049: 1, H0052: 1, H0251: 1, H0204: 1, H0544: 1, H0046: 1, H0457: 1, L0157: 1, H0050: 1, H0014: 1, S0051: 1, H0099: 1, H0188: 1, H0288: 1, H0286: 1, H0428: 1, L0483: 1, H0031: 1, H0553: 1, H0181: 1, H0617: 1, S0366: 1, H0040: 1, H0616: 1, H0551: 1, H0623: 1, T0042: 1, L0475: 1, H0334: 1, H0560: 1, H0625: 1, H0509: 1, H0647: 1, H0646: 1, S0344: 1, H0538: 1, L0762: 1, L0763: 1, L0637: 1, L0372: 1, L0800: 1, L0626: 1, L0803: 1, L0774: 1, L0378: 1, L0655: 1, L0657: 1, L0809: 1, L0647: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0690: 1, H0672: 1, H0709: 1, H0696: 1, H0187: 1, H0436: 1, H0478: 1, S0037: 1, S0028: 1, L0439: 1, L0779: 1, L0780: 1, L0752: 1, S0031: 1, S0434: 1, S0436: 1, L0595: 1, L0601: 1, S0011: 1, H0668: 1 and H0677: 1.	16		
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2083	HSDGM42	865828	2093	128 - 235	4690	Arg-23 to Arg-30.	2, L0789: 2, H0520: 2, S0126: 2, S3014: 2, L0742: 2, L0747: 2, L0755: 2, L0759: 2, L0591: 2, L0581: 2, H0624: 1, S0040: 1, S0342: 1, S0402: 1, S0114: 1, S0134: 1, H0656: 1, H0255: 1, H0661: 1, H0402: 1, H0638: 1, S0420: 1, S0354: 1, S0360: 1, S0132: 1, S6026: 1, H0549: 1, S0222: 1, S6014: 1, H0392: 1, H0455: 1, H0642: 1, H0331: 1, H0632: 1, T0040: 1, H0013: 1, H0599: 1, L0022: 1, H0581: 1, S0049: 1, H0052: 1, H0251: 1, H0204: 1, H0544: 1, H0046: 1, H0457: 1, L0157: 1, H0050: 1, H0014: 1, S0051: 1, H0099: 1, H0188: 1, H0288: 1, H0286: 1, H0428: 1, L0483: 1, H0031: 1, H0553: 1, H0181: 1, H0617: 1, S0366: 1, H0040: 1, H0616: 1, H0551: 1, H0623: 1, T0042: 1, L0475: 1, H0334: 1, H0560: 1, H0625: 1, H0509: 1, H0647: 1, H0646: 1, S0344: 1, H0538: 1, L0762: 1, L0763: 1, L0637: 1, L0372: 1, L0800: 1, L0626: 1, L0803: 1, L0774: 1, L0378: 1, L0655: 1, L0657: 1, L0809: 1, L0647: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0690: 1, H0672: 1, H0709: 1, H0696: 1, H0187: 1, H0436: 1, H0478: 1, S0037: 1, S0028: 1, L0439: 1, L0779: 1, L0780: 1, L0752: 1, S0031: 1, S0434: 1, S0436: 1, L0595: 1, L0601: 1, S0011: 1, H0668: 1 and H0677: 1.	16	
						AR244: 9, AR312: 7, AR309: 7, AR313: 7,			

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						H0271: 10, H0556: 7, L0731: 7, H0494: 5, L0766: 5, L0777: 5, H0622: 4, L0805: 4, L0741: 4, L0743: 4, L0744: 4, L0749: 4, H0619: 3, H0333: 3, H0179: 3, H0416: 3, S0440: 3, L0804: 3, H0519: 3, H0539: 3, H0521: 3, L0740: 3, L0758: 3, H0542: 3, H0543: 3, H0458: 2, L0717: 2, H0592: 2, H0618: 2, H0318: 2, T0041: 2, H0529: 2, L0769: 2, L0667: 2, L0643: 2, L0521: 2, L0794: 2, L0776: 2, L0659: 2, L0789: 2, H0520: 2, S0126: 2, S3014: 2, L0742: 2, L0747: 2, L0755: 2, L0759: 2, L0591: 2, L0581: 2, H0624: 1, S0040: 1, S0342: 1, S0402: 1, S0114: 1, S0134: 1, H0656: 1, H0255: 1, H0661: 1, H0402: 1, H0638: 1, S0420: 1, S0354: 1, S0360: 1, S0132: 1, S6026: 1, H0549: 1, S0222: 1, S6014: 1, H0392: 1, H0455: 1, H0642: 1, H0331: 1, H0632: 1, T0040: 1, H0013: 1, H0599: 1, L0022: 1, H0581: 1, S0049: 1, H0052: 1, H0251: 1, H0204: 1, H0544: 1, H0046: 1, H0457: 1, L0157: 1, H0050: 1, H0014: 1, S0051: 1, H0099: 1, H0188: 1, H0288: 1, H0286: 1, H0428: 1, L0483: 1, H0031: 1, H0553: 1, H0181: 1, H0617: 1, S0366: 1, H0040: 1, H0616: 1, H0551: 1, H0623: 1, T0042: 1, L0475: 1, H0334: 1, H0560: 1, H0625: 1, H0509: 1, H0647: 1, H0646: 1, S0344: 1, H0538: 1, L0762: 1, L0763: 1, L0637: 1, L0372: 1, L0800: 1, L0626:
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2084	HSDGM42	886748	2094	128 - 235	4691	Arg-23 to Arg-30.	1, L0803: 1, L0774: 1, L0378: 1, L0655: 1, L0657: 1, L0809: 1, L0647: 1, L0664: 1, L0665: 1, S0052: 1, H0547: 1, H0690: 1, H0672: 1, H0709: 1, H0696: 1, H0187: 1, H0436: 1, H0478: 1, S0037: 1, S0028: 1, L0439: 1, L0779: 1, L0780: 1, L0752: 1, S0031: 1, S0434: 1, S0436: 1, L0595: 1, L0601: 1, S0011: 1, H0668: 1 and H0677: 1. AR244: 9, AR312: 7, AR309: 7, AR313: 7, AR265: 7, AR263: 7, AR310: 7, AR183: 6, AR247: 6, AR053: 6, AR192: 6, AR204: 6, AR052: 6, AR271: 6, AR096: 5, AR243: 5, AR249: 5, AR202: 5, AR186: 5, AR274: 5, AR246: 5, AR213: 5, AR033: 5, AR248: 5, AR198: 4, AR060: 4, AR295: 4, AR206: 4, AR275: 4, AR299: 4, AR269: 4, AR273: 4, AR219: 4, AR218: 4, AR104: 4, AR316: 4, AR282: 4, AR315: 4, AR039: 4, AR089: 4, AR194: 4, AR253: 4, AR205: 4, AR293: 3, AR185: 3, AR175: 3, AR240: 3, AR314: 3, AR061: 3, AR234: 3, AR055: 3, AR229: 3, AR292: 3, AR294: 3, AR231: 3, AR267: 3, AR270: 3, AR268: 3,	16		
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2085	HSDHD05	570824	2095	229 - 417	4692				S0031: 1										
2086	HSDIE51	600371	2096	185 - 271	4693				L0744: 2, H0624: 1, H0171: 1, H0650: 1, H0599: 1, H0374: 1, H0052: 1, H0615: 1, H0553: 1, H0166: 1, L0773: 1, L0659: 1, S0260: 1 and H0665: 1.										
2087	HSDIK31	847087	2097	194 - 340	4694				H0124: 5, H0521: 5, S0022: 3, S0126: 3, S0418: 2, H0587: 2, H0081: 2, L0483: 2, L0766: 2, H0519: 2, L0748: 2, L0731: 2, L0588: 2, L0600: 2, T0002: 1, T0049: 1, S0116: 1, H0661: 1, S0420: 1, L0005: 1, S0356: 1, H0580: 1, H0645: 1, H0549: 1, H0550: 1, S0222: 1, H0586: 1, H0486: 1, H0013: 1, H0069: 1.										

2088	HSDIV37	847088	2098	147 - 239	4695			1, H0098: 1, H0575: 1, H0036: 1, L0563: 1, S0049: 1, H0052: 1, H0009: 1, H0275: 1, H0252: 1, H0031: 1, H0644: 1, H0383: 1, H0090: 1, H0551: 1, H0412: 1, L0564: 1, H0560: 1, S0450: 1, H0509: 1, L0763: 1, L0637: 1, L0646: 1, L0804: 1, L0654: 1, L0659: 1, L0783: 1, L0789: 1, H0144: 1, H0520: 1, H0435: 1, H0478: 1, H0627: 1, S0027: 1, L0749: 1, L0757: 1, S0260: 1, L0591: 1, L0603: 1, H0667: 1 and H0543: 1.		
2089	HSDIC96	753284	2099	687 - 830	4696			L0740: 7, L0803: 4, L0748: 4, L0717: 2, H0351: 2, L0766: 2, L0659: 2, L0439: 2, L0758: 2, L0759: 2, S0106: 2, H0657: 1, H0662: 1, H0369: 1, H0486: 1, H0596: 1, H0014: 1, H0051: 1, S0003: 1, S0214: 1, H0428: 1, H0622: 1, H0032: 1, H0673: 1, H0646: 1, L0598: 1, L0764: 1, L0649: 1, L0804: 1, L0776: 1, L0783: 1, L0809: 1, L0529: 1, L0647: 1, L0438: 1, H0672: 1, L0754: 1, L0779: 1, L0780: 1, S0260: 1, L0366: 1, S0026: 1 and H0543: 1. AR060: 8, AR316: 7, AR089: 7 H0556: 2, H0662: 2, S0420: 2, H0013: 2, H0457: 2, L0766: 2, L0659: 2, H0520: 2, S0136: 2, L0731: 2, H0624: 1, S0376: 1, S0132: 1, S0476: 1, H0619: 1, L0021: 1, H0581: 1, H0251: 1, H0105: 1, H0373: 1, S0003: 1, H0328: 1, H0615: 1, H0622: 1, H0553: 1, H0644: 1, H0628: 1		

2090	HSDJE77	741053	2100	114 - 212	4697			1, H0032: 1, S0036: 1, H0551: 1, H0264: 1, S0440: 1, S0144: 1, H0529: 1, L0783: 1, L0793: 1, H0144: 1, S0126: 1, H0435: 1, S0328: 1, S0330: 1, H0539: 1, S0152: 1, S0454: 1, H0521: 1, S0404: 1, L0745: 1, S0260: 1, H0445: 1, H0595: 1, S0026: 1, H0423: 1, H0422: 1 and H0506: 1.		
2091	HSDJF04	695756	2101	74 - 424	4698	Tyr-59 to Arg-64, Pro-101 to Met-116.		AR089: 13, AR316: 12, AR060: 11 L0439: 13, S0007: 3, L0438: 3, L0777: 3, S0346: 2, L0351: 2, L0804: 2, L0753: 2, S0040: 1, S0360: 1, H0339: 1, S0045: 1, S6026: 1, S0300: 1, L0394: 1, S0222: 1, H0415: 1, H0455: 1, H0587: 1, T0109: 1, H0590: 1, S0010: 1, H0310: 1, H0251: 1, H0009: 1, H0572: 1, H0051: 1, H0268: 1, L0371: 1, L0768: 1, L0794: 1, L0805: 1, L0518: 1, L0791: 1, H0520: 1, H0521: 1, H0696: 1, L0748: 1, L0749: 1, L0780: 1, L0759: 1, S0031: 1, S0260: 1, L0366: 1 and S0026: 1.	14q21.3	182600, 232700, 602086
2092	HSDJG47	847325	2102	714 - 851	4699			AR060: 8, AR316: 7, AR089: 7 L0748: 6, H0402: 3, S0378: 3, L0750: 3, H0620: 2, L0666: 2, L0740: 2, L0745: 2, L0600: 2, H0241: 1, H0305: 1, S0418: 1, H0550: 1, H0706: 1, H0253: 1, H0231: 1, H0327: 1, H0457: 1, L0157: 1, H0123: 1, H0012: 1, L0669: 1, H0615: 1, H0673: 1.	17pter-p13.1	



2093	HSDJH72	805971	2103	241 - 312	4700				1, H0068: 1, H0488: 1, S0144: 1, L0794: 1, L0774: 1, L0776: 1, L0807: 1, L0809: 1, L0665: 1, S0052: 1, L0352: 1, S0328: 1, H0187: 1, L0743: 1, L0749: 1, L0777: 1, L0752: 1, L0759: 1, S0260: 1, L0599: 1 and : 1.			
2094	HSDJL07	895387	2104	282 - 392	4701				AR089: 27, AR316: 20, AR060: 13			
2095	HSDJR49	741079	2105	102 - 203	4702	Ser-27 to Phe-36.			H0411: 1, H0427: 1, H0538: 1 and S0260: 1.			
2096	HSDJV24	806246	2106	2 - 1489	4703	Ser-27 to Met-33.			H0617: 1 and S0260: 1.			
						Arg-29 to His-35, Arg-54 to Ala-61, Ser-76 to Gln-103, Val-111 to Arg-116, Glu-121 to Pro-141, Gly-149 to Cys-164, Asn-183 to Glu-188, Thr-227 to Glu-234, Ser-298 to Arg-304, Gln-323 to Glu-328, Asp-343 to Tyr-354, Tyr-395 to Gly-408, Glu-427 to Arg-434, Pro-466 to Asp-471, Pro-480 to Asn-493.			S0260: 1	11		
2097	HSDJV40	623716	2107	126 - 317	4704	Pro-44 to Asn-49.				L0439: 12, L0731: 5, L0754: 4, L0666: 3, S0374: 3, L0750: 3, L0758: 3, L0592: 3, S0358: 2, H0038: 2, L0654: 2, L0776: 2, L0665: 2, L0438: 2, H0547: 2, S0126: 2, L0740: 2, L0756: 2, L0779: 2, L0755: 2, L0757: 2, L0759: 2, L0485: 2, L0599: 2, L0608: 2, H0556: 1, S0212: 1, S0418: 1, S0007: 1, S0046: 1, H0632: 1, H0318: 1, H0230: 1, H0196: 1, H0052: 1, H0596: 1, H0545: 1, H0562: 1, H0014: 1, H0266: 1, S0003: 1, H0328: 1, H0622: 1, T0023: 1, L0455: 1, H0412: 1, H0413: 1, L0370: 1, S0422: 1, L0637: 1, L0772: 1, L0372: 1, L0764: 1, L0662: 1, L0768: 1, L0784: 1, L0805: 1, L0606: 1, H0693: 1, H0684: 1, H0522: 1, S0013: 1, S0432: 1, L0786: 1, L0780: 1, L0752: 1, S0260: 1, L0589: 1 and S0042: 1.		
										H0265: 1, L0754: 1, S0260: 1 and L0596: 1.		

2098	HSDKA64	600372	2108	199 - 366	4705	Gly-19 to Trp-27, Gln-40 to Trp-45.	S0260: 1 and H0423: 1.		
2099	HSDKE82	821579	2109	120 - 410	4706	Thr-52 to Ile-61, Val-64 to Lys-73.	S0260: 1		
2100	HSDKF96	839730	2110	187 - 264	4707		S0260: 1		
2101	HSDZO08	827460	2111	1142 - 1651	4708	Ala-61 to Leu-81, Pro-123 to Glu-131, Ala-141 to Lys-146.	L0777: 7, H0052: 6, L0758: 6, S0222: 5, H0333: 3, L0157: 3, H0617: 3, L0769: 3, L0662: 3, H0696: 3, L0744: 3, L0779: 3, L0759: 3, S0114: 2, L0103: 2, H0550: 2, H0486: 2, H0618: 2, H0253: 2, H0050: 2, T0010: 2, H0181: 2, H0182: 2, L0639: 2, L5565: 2, L0771: 2, L0768: 2, L0766: 2, L0517: 2, L0532: 2, L0666: 2, L0665: 2, H0144: 2, H0519: 2, H0658: 2, L0751: 2, L0752: 2, L0608: 2, T0049: 1, H0661: 1, H0306: 1, S0360: 1, S0045: 1, S0300: 1, H0351: 1, H0261: 1, H0455: 1, H0587: 1, H0632: 1, T0040: 1, H0427: 1, H0599: 1, S0010: 1, S0049: 1, H0009: 1, L0471: 1, H0024: 1, H0275: 1, H0083: 1, S0024: 1, H0099: 1, H0188: 1, S0250: 1, H0039: 1, H0424: 1, H0405: 1, H0673: 1, H0100: 1, H0647: 1, S0426: 1, L0763: 1, L0637: 1, L5575: 1, L0641: 1, L0767: 1, L0649: 1, L0806: 1, L0776: 1, L0383: 1, L0809: 1, L0789: 1, L0792: 1, S0052: 1, L0438: 1, H0547: 1, H0593: 1, S0126: 1, H0672: 1, S0330: 1, H0521: 1, H0436: 1, S0028: 1, L0741: 1, L0743: 1, L0747: 1, L0749: 1, L0756: 1, L0753: 1, L0596: 1, L0590: 1, S0106: 1, S0194: 1, S0460: 1 and H0506: 1.	3p21.1	150250, 164500, 168468, 182280, 238310, 600163, 601226, 601916

2102	HSDZQ96	809112	2112	330 - 371	4709		L0741: 2, L0439: 2, S0222: 1, H0455: 1, H0438: 1, N0007: 1, L0769: 1 and L0592: 1.		
2103	HSEBB18	877813	2113	268 - 312	4710		AR089: 3, AR316: 3, AR060: 2 L0766: 8, L0439: 7, L0769: 6, L0747: 5, L0438: 4, L0750: 4, L0764: 3, S0045: 2, L0770: 2, L0768: 2, L0774: 2, L0659: 2, L0783: 2, L0809: 2, L0751: 2, L0731: 2, L0589: 2, H0543: 2, H0685: 1, S0360: 1, H0580: 1, H0351: 1, H0156: 1, L0021: 1, H0575: 1, H0581: 1, H0457: 1, L0041: 1, H0050: 1, H0024: 1, H0376: 1, H0063: 1, H0100: 1, H0494: 1, L0638: 1, L0648: 1, L0662: 1, L0649: 1, L0784: 1, L0666: 1, L0663: 1, H0520: 1, H0659: 1, L0759: 1 and H0445: 1.		
2104	HSFAM19	691371	2114	170 - 316	4711	Ser-32 to Ala-41.	AR089: 23, AR316: 18, AR060: 13 H0154: 1	1q32-q41	114208, 114208, 119300, 120620, 120620, 120920, 134370, 134370, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 276901, 600105, 600332, 600759, 601494, 601744, 601975
2105	HSHAG54	834781	2115	155 - 271	4712		AR089: 14, AR316: 11, AR060: 8 L0748: 8, L0769: 5, L0759: 5, L0803: 4, H0657: 3, S0360: 3, H0561: 3, L0520: 3, L0593: 3, H0341: 2, H0428: 2, T0042: 2, L0804: 2, L0784: 2, L0787: 2, L0663: 2, H0519: 2, L0755: 2		

2106	HSHAS72	835991	2116	207 - 422	4713	Thrs-58 to Lys-67.	<p>2, L0591: 2, L0595: 2, H0171: 1, H0556: 1, H0663: 1, S0418: 1, H0580: 1, H0587: 1, H0331: 1, T0109: 1, S0010: 1, S0182: 1, H0052: 1, T0115: 1, T0003: 1, H0083: 1, H0031: 1, S0036: 1, H0647: 1, L0369: 1, L0761: 1, L0641: 1, L0773: 1, L0662: 1, L0768: 1, L0794: 1, L0766: 1, L0806: 1, L0805: 1, L0776: 1, L0661: 1, L0629: 1, L0657: 1, L0656: 1, L0659: 1, L0526: 1, L0519: 1, L0541: 1, L0666: 1, L0664: 1, L0665: 1, H0144: 1, H0547: 1, S0126: 1, H0659: 1, H0648: 1, H0539: 1, H0696: 1, S0037: 1, S3014: 1, L0754: 1, L0747: 1, L0750: 1, L0779: 1, L0752: 1, L0731: 1, L0757: 1, S0260: 1, L0592: 1, L0608: 1, S0026: 1, H0423: 1 and S0424: 1.</p> <p>AR223: 8, AR170: 7, AR168: 6, AR192: 6, AR207: 5, AR180: 5, AR171: 5, AR176: 5, AR183: 4, AR182: 4, AR269: 4, AR060: 4, AR181: 4, AR039: 4, AR204: 4, AR162: 4, AR205: 4, AR163: 4, AR161: 4, AR266: 4, AR228: 4, AR214: 4, AR216: 4, AR257: 4, AR271: 4, AR178: 4, AR225: 3, AR222: 3, AR243: 3, AR201: 3, AR250: 3, AR165: 3, AR166: 3, AR172: 3, AR238: 3, AR270: 3,</p>		
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2107	HSHAX04	812178	2117	42 - 215	4714			L0740: 7, S0045: 4, S0152: 3, L0754: 3, S0212: 2, L0517: 2, H0547: 2, H0717: 1, S0354: 1, S0358: 1, S0046: 1, S0476: 1, H0619: 1, H0645: 1, H0550: 1, H0013: 1, H0597: 1, S0250: 1, H0428: 1, H0628: 1, H0551: 1, H0100: 1, L0564: 1, S0464: 1, L0552: 1, L0659: 1, H0519: 1, S0126: 1, H0435: 1, H0539: 1, S0037: 1, S0206: 1, L0749: 1, L0750: 1, L0758: 1, L0596: 1 and S0196: 1.	1p32	120950, 120960, 138140, 178300, 187040, 600101, 600650, 600650, 600722, 600722
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2108	HSHBT15	581088	2118	187 - 468	4715	Gly-1 to Ala-13.	1, L0806: 1, L0519: 1, L0666: 1, L0663: 1, H0698: 1, H0689: 1, H0539: 1, H0518: 1, S0027: 1, S0028: 1, L0747: 1, L0752: 1, H0707: 1, L0597: 1, L0581: 1, L0361: 1, H0653: 1, H0542: 1 and H0506: 1. H0069: 2, H0635: 2, H0575: 2, H0031: 2, H0634: 2, L0662: 2, L0751: 2, L0758: 2, H0170: 1, H0149: 1, S0040: 1, H0656: 1, H0392: 1, H0249: 1, H0123: 1, H0428: 1, H0038: 1, L0761: 1, L0803: 1, L0805: 1, L0653: 1, H0144: 1, S0037: 1, L0756: 1, L0779: 1, L0777: 1 and L0780: 1.	20q13.1-q13.2	118504, 118504, 131242, 139320, 139320, 139320, 139320, 256540, 600281, 600281, 602025
2109	HSHCE85	855969	2119	263 - 373	4716		S0408: 3, H0351: 3, L0766: 3, S0037: 3, L0439: 3, S0418: 2, H0637: 2, S0132: 2, H0370: 2, L0142: 2, H0494: 2, L0803: 2, L0663: 2, H0144: 2, H0520: 2, L0748: 2, L0745: 2, L0749: 2, L0752: 2, H0170: 1, H0556: 1, S0134: 1, H0650: 1, T0007: 1, S0354: 1, H0549: 1, H0431: 1, H0360: 1, H0251: 1, H0014: 1, H0239: 1, S0003: 1, H0031: 1, H0553: 1, H0634: 1, H0551: 1, H0412: 1, L0065: 1, S0438: 1, H0647: 1, H0646: 1, S0210: 1, L0768: 1, L0794: 1, L0649: 1, L0527: 1, L0659: 1, L0809: 1, L0789: 1, L0665: 1, H0648: 1, S0380: 1, H0694: 1, S0406: 1, S0028: 1 and L0754: 1.		
2110	HSIAC81	783076	2120	46 - 111	4717		AR060: 18, AR232: 10, AR226: 10, AR316: 7, AR299: 7, AR238: 6, AR039: 6, AR237: 6,		

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2111	HSIAF66	853381	2121	74 - 187	4718			AR213: 1, AR174: 1, AR286: 1, AR260: 1, AR242: 1, AR201: 1, AR219: 1, AR217: 1 S0354: 2, H0036: 2, H0590: 2, H0014: 1 and L0803: 1. H0036: 1		
2112	HSIAP01	897538	2122	90 - 170	4719	Pro-20 to Ser-25.		AR089: 4, AR060: 3, AR316: 2 H0036: 2 and H0253: 1.		
2113	HSIDA33	784543	2123	196 - 210	4720			L0748: 7, H0623: 4, L0754: 4, S0358: 3, H0510: 3, L0770: 3, L0439: 3, H0638: 2, H0036: 2, H0050: 2, S0036: 2, L0766: 2, H0656: 1, H0341: 1, S0212: 1, H0619: 1, H0441: 1, H0392: 1, H0632: 1, T0060: 1, S0049: 1, H0051: 1, H0266: 1, H0615: 1, H0428: 1, H0031: 1, H0644: 1, H0063: 1, H0100: 1, H0359: 1, H0561: 1, S0438: 1, S0344: 1, S0002: 1, S0426: 1, L0803: 1, L0375: 1, L0776: 1, L0809: 1, L0791: 1, L0792: 1, T0068: 1, L0438: 1, H0684: 1, S0146: 1, S014: 1, L0747: 1, L0749: 1, L0779: 1, L0753: 1 and S0260: 1.	12	
2114	HSIDA39	604958	2124	260 - 433	4721	Lys-21 to Ser-28, Glu-33 to Trp-40, Arg-52 to Thr-57.		L0520: 3, H0333: 1, H0036: 1 and L0752: 1.		
2115	HSIDZ25	658721	2125	53 - 388	4722	Arg-33 to Phe-41.		AR313: 8, AR060: 5, AR310: 5, AR052: 5, AR249: 4, AR299: 4, AR229: 4, AR312: 4, AR309: 4, AR293: 4, AR089: 4, AR198: 4, AR061: 4, AR282: 4, AR253: 3, AR096: 3,		

2116	HSIEB64	651359	2126	182 - 280	4723		AR053: 3, AR186: 3, AR247: 3, AR183: 3, AR238: 3, AR226: 3, AR269: 3, AR271: 3, AR265: 3, AR213: 3, AR251: 3, AR033: 3, AR240: 3, AR246: 3, AR231: 3, AR316: 2, AR177: 2, AR192: 2, AR182: 2, AR202: 2, AR055: 2, AR243: 2, AR286: 2, AR248: 2, AR175: 2, AR275: 2, AR295: 2, AR263: 2, AR277: 2, AR233: 2, AR270: 2, AR206: 2, AR291: 2, AR185: 2, AR218: 2, AR300: 2, AR258: 2, AR283: 1, AR296: 1, AR219: 1, AR259: 1, AR205: 1, AR285: 1, AR289: 1 L0740: 9, L0755: 7, H0556: 4, H0251: 4, S0358: 3, L0772: 2, L0764: 2, L0768: 2, L0766: 2, L0747: 2, H0218: 1, S0040: 1, S0212: 1, S0420: 1, S0444: 1, S0360: 1, S0046: 1, H0549: 1, H0036: 1, H0590: 1, H0046: 1, H0687: 1, L0483: 1, H0413: 1, H0646: 1, L0369: 1, L0363: 1, L0649: 1, L0774: 1, L0775: 1, L0806: 1, L0665: 1, H0144: 1, H0658: 1, S0380: 1, H0134: 1, L0743: 1, L0754: 1, L0731: 1, L0757: 1, H0445: 1, H0343: 1, S0011: 1, H0668: 1 and S0276: 1. L0756: 2, H0036: 1 and L0769: 1.		
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2117	HSIEM18	566877	2127	162 - 209	4724		L0754: 4, S0003: 2, H0615: 2, L0804: 2, H0659: 2, L0758: 2, H0669: 1, S0376: 1, H0208: 1, L0717: 1, H0486: 1, H0036: 1, H0052: 1, H0553: 1, T0067: 1, L0666: 1, S0374: 1, H0521: 1, L0752: 1 and S0011: 1.		
2118	HSIFO61	845026	2128	95 - 1933	4725	Ser-27 to Pro-35, Thr-87 to Ile-99, Pro-106 to Lys-112, Glu-119 to Ser-130, Ser-182 to Val-187, Lys-194 to Tyr-204, Lys-295 to Val-300, Lys-384 to Glu-390, Thr-512 to Thr-526, Ser-530 to Glu-537, Gln-556 to Lys-562, Lys-593 to Leu-601.	AR217: 30, AR170: 24, AR216: 23, AR171: 21, AR172: 19, AR168: 19, AR169: 18, AR273: 18, AR291: 18, AR255: 17, AR284: 16, AR215: 15, AR261: 15, AR297: 14, AR296: 14, AR292: 13, AR272: 13, AR280: 13, AR285: 13, AR052: 13, AR298: 13, AR269: 13, AR235: 13, AR182: 13, AR287: 13, AR214: 12, AR286: 11, AR260: 11, AR270: 11, AR309: 11, AR191: 11, AR310: 11, AR257: 11, AR225: 11, AR238: 11, AR244: 10, AR295: 10, AR289: 10, AR281: 10, AR196: 10, AR288: 10, AR315: 10, AR224: 10, AR290: 10, AR268: 10, AR221: 10, AR265: 10, AR239: 10, AR184: 9, AR294: 9, AR314: 9, AR312: 9, AR219: 9, AR267: 9, AR188: 9, AR231: 9, AR313: 8, AR176: 8, AR183: 8, AR226: 8, AR223: 8, AR213: 8, AR175: 8, AR262: 8, AR237: 8, AR293: 8,	Xq25-q26	300037, 300076, 300123, 301201, 301845, 301900, 304340, 307150, 307700, 308000, 308000, 308230, 308240, 309555, 310490, 312000, 313350, 313850

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2119	HSIFO61	852715	2129	772 - 882	4726			L0803: 13, L0774: 8, L0751: 5, H0038: 4, L0666: 4, L0663: 4, H0521: 4, H0036: 3, H0590: 3, L0163: 3, L0664: 3, L0748: 3, L0749: 3, L0752: 3, H0543: 3, H0556: 2, H0341: 2, S0046: 2, H0431: 2, H0196: 2, H0373: 2, H0510: 2, S0003: 2, H0551: 2, H0561: 2, L0769: 2, L0771: 2, L0665: 2, H0144: 2, H0547: 2, L0439: 2, L0754: 2, L0596: 2, L0604: 2, H0542: 2, H0650: 1, H0638: 1, S0132: 1, H0393: 1, L0717: 1, H0351: 1, S0278: 1, H0409: 1, H0592: 1, H0497: 1, H0013: 1, H0004: 1, S0182: 1, H0318: 1, H0046: 1, H0012: 1, H0266: 1, H0286: 1, H0644: 1, H0135: 1, H0090: 1, T0067: 1, H0059: 1, S0150: 1, S0002: 1, H0529: 1, L0369: 1, L0763: 1, L0637: 1, L0646: 1, L0768: 1, L0794: 1, L0766: 1, L0804: 1, L0806: 1, L0657: 1, L0809: 1, L0367: 1, L0789: 1, S0374: 1, H0435: 1, H0658: 1, H0670: 1, H0522: 1, H0134: 1, S0028: 1, L0747: 1, L0779: 1, L0777: 1, L0755: 1, L0758: 1 and L0591: 1.	Xq25-q26	300037, 300076, 300123, 301201, 301845, 301900, 304340, 307150, 307700, 308000, 308000, 308230, 308240, 309555, 310490, 312000, 313350, 313850
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2120	HSIGC63	877486	2130	259 - 303	4727			1, H0266: 1, H0286: 1, H0644: 1, H0135: 1, H0090: 1, T0067: 1, H0059: 1, S0150: 1, S0002: 1, H0529: 1, L0369: 1, L0763: 1, L0637: 1, L0646: 1, L0768: 1, L0794: 1, L0766: 1, L0804: 1, L0806: 1, L0657: 1, L0809: 1, L0367: 1, L0789: 1, S0374: 1, H0435: 1, H0658: 1, H0670: 1, H0522: 1, H0134: 1, S0028: 1, L0747: 1, L0779: 1, L0777: 1, L0755: 1, L0758: 1 and L0591: 1.		
2121	HSIGM95	840382	2131	398 - 403	4728			AR089: 12, AR316: 9, AR060: 7 H0556: 2, H0637: 1, S0132: 1, H0590: 1, H0253: 1 and S0344: 1.		
2122	HSJAE76	769762	2132	180 - 272	4729			AR089: 22, AR316: 17, AR060: 12 H0590: 2 and S0114: 1. L0754: 6, L0748: 4, L0439: 4, L0756: 3, L0717: 2, L0370: 2, H0547: 2, L0747: 2, L0758: 2, H0395: 1, H0556: 1, H0656: 1, S0212: 1, H0333: 1, T0039: 1, H0013: 1, H0052: 1, H0309: 1, H0263: 1, H0050: 1, L0471: 1, H0083: 1, H0030: 1, H0031: 1, H0553: 1, H0038: 1, H0040: 1, H0551: 1, H0396: 1, UNKWN: 1, L0598: 1, L0662: 1, L0804: 1, L0378: 1, L0806: 1, L0653: 1, L0792: 1, L0352: 1, H0520: 1, H0682: 1, H0684: 1, S0032: 1, L0749: 1, L0779: 1, L0755: 1, L0757: 1 and H0422: 1.	9	
2123	HSJAN83	825132	2133	189 - 227	4730			H0574: 1 and S0032: 1.		



2124	HSJAO10	853383	2134	56 - 190	4731		L0769: 3, L0439: 3, H0676: 2, H0333: 2, L0794: 2, L0783: 2, S0053: 2, S0328: 2, L0748: 2, L0759: 2, H0265: 1, H0556: 1, S0430: 1, H0657: 1, H0341: 1, S0360: 1, S0132: 1, H0393: 1, L0717: 1, H0486: 1, S0010: 1, H0318: 1, H0052: 1, L0471: 1, S0051: 1, H0038: 1, H0040: 1, H0412: 1, H0494: 1, S0016: 1, H0130: 1, S0210: 1, S0422: 1, L0646: 1, L0644: 1, L0771: 1, L0774: 1, L0655: 1, L0527: 1, L0657: 1, L0789: 1, S0216: 1, L0438: 1, L0352: 1, S0330: 1, S0146: 1, S0032: 1, L0749: 1, L0779: 1, L0777: 1, L0757: 1, S0242: 1, S0276: 1 and H0423: 1.	22q13.2	188826
2125	HSJAR59	846364	2135	35 - 130	4732		AR089: 640, AR316: 606, AR060: 573 S0032: 1		
2126	HSJAU93	702019	2136	87 - 632	4733	Leu-44 to Arg-52, Ala-66 to Leu-73, Asp-79 to Cys-84, Gln-133 to Arg-139, Ala-143 to Val-150, Thr-152 to Arg-160.	AR060: 7, AR316: 7, AR089: 7 L0794: 5, H0657: 3, L0439: 3, H0253: 2, H0620: 2, H0617: 2, L0769: 2, L0766: 2, L0593: 2, L0601: 2, L0785: 1, H0545: 1, H0012: 1, H0375: 1, S0364: 1, H0087: 1, H0059: 1, H0132: 1, L0369: 1, L0762: 1, L0761: 1, L0662: 1, L0375: 1, L0659: 1, L0791: 1, L0666: 1, L0663: 1, H0519: 1, H0682: 1, H0521: 1, H0134: 1, H0436: 1, H0576: 1, S0206: 1, S0032: 1, L0747: 1, L0757: 1, L0366: 1, H0665: 1 and H0422: 1.		
2127	HSJAY14	813220	2137	416 - 430	4734		AR089: 7, AR316: 6, AR060: 6	9	

2128	HSJAY14	880981	2138	416 - 430	4735				L0759: 11, L0748: 7, L0439: 7, L0749: 7, L0731: 4, H0553: 3, L0805: 3, L0809: 3, L0789: 3, L0750: 3, L0756: 3, L0777: 3, H0624: 2, L0471: 2, H0266: 2, H0494: 2, L0372: 2, L0803: 2, L0438: 2, H0521: 2, L0740: 2, H0423: 2, H0170: 1, H0171: 1, S0134: 1, S0360: 1, S0222: 1, H0441: 1, H0333: 1, H0013: 1, H0244: 1, H0251: 1, T0110: 1, H0046: 1, H0014: 1, H0032: 1, S0036: 1, T0042: 1, H0366: 1, S0306: 1, S0438: 1, S0440: 1, S0150: 1, L0598: 1, L0770: 1, L0637: 1, L0521: 1, L0662: 1, L0766: 1, L0804: 1, L0653: 1, L0512: 1, L0647: 1, L0790: 1, L0665: 1, H0144: 1, H0520: 1, H0593: 1, S0126: 1, H0690: 1, H0660: 1, H0666: 1, H0648: 1, S0380: 1, H0518: 1, S0404: 1, S0032: 1, L0751: 1, L0747: 1, L0779: 1, L0752: 1, L0755: 1, L0589: 1, H0668: 1, H0422: 1 and H0293: 1.		
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2129	HSIAY14	888485	2139	416 - 430	4736			1, S0036: 1, T0042: 1, H0366: 1, S0306: 1, S0438: 1, S0440: 1, S0150: 1, L0598: 1, L0770: 1, L0637: 1, L0521: 1, L0662: 1, L0766: 1, L0804: 1, L0653: 1, L0512: 1, L0647: 1, L0790: 1, L0665: 1, H0144: 1, H0520: 1, H0593: 1, S0126: 1, H0690: 1, H0660: 1, H0666: 1, H0648: 1, S0380: 1, H0518: 1, S0404: 1, S0032: 1, L0751: 1, L0747: 1, L0779: 1, L0752: 1, L0755: 1, L0589: 1, H0668: 1, H0422: 1 and H0293: 1.		
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2130	HSJAY14	901635	2140	416 - 430	4737			AR089: 7, AR316: 6, AR060: 6 L0759: 11, L0748: 7, L0439: 7, L0749: 7, L0731: 4, H0553: 3, L0805: 3, L0809: 3, L0789: 3, L0750: 3, L0756: 3, L0777: 3, H0624: 2, L0471: 2, H0266: 2, H0494: 2, L0372: 2, L0803: 2, L0438: 2, H0521: 2, L0740: 2, H0423: 2, H0170: 1, H0171: 1, S0134: 1, S0360: 1, S0222: 1, H0441: 1, H0333: 1, H0013: 1, H0244: 1, H0251: 1, T0110: 1, H0046: 1, H0014: 1, H0032: 1, S0036: 1, T0042: 1, H0366: 1, S0306: 1, S0438: 1, S0440: 1, S0150: 1, L0598: 1, L0770: 1, L0637: 1, L0521: 1, L0662: 1, L0766: 1, L0804: 1, L0653: 1, L0512: 1, L0647: 1, L0790: 1, L0665: 1, H0144: 1, H0520: 1, H0593: 1, S0126: 1, H0690: 1, H0660: 1, H0666: 1, H0648: 1, S0380: 1, H0518: 1, S0404: 1, S0032: 1, L0751: 1, L0747: 1, L0779: 1, L0752: 1, L0755: 1, L0589: 1, H0668: 1, H0422: 1 and H0293: 1.	9	
2131	HSJBB27	581089	2141	66 - 185	4738			AR060: 7, AR316: 5, AR089: 4 S0032: 2		
2132	HSKBU03	839271	2142	79 - 141	4739			AR089: 19, AR316: 17, AR060: 14 H0392: 1, L0769: 1 and S0027: 1.		
2133	HSKCQ51	651376	2143	235 - 528	4740	Arg-30 to Leu-35, Gln-37 to Gly-45, Pro-61 to Arg-71,		AR162: 9, AR161: 9, AR163: 9, AR253: 9, AR192: 9, AR089: 8,	1p36.13	115665, 120550, 120570, 120575, 130500, 133200.

						Pro-90 to Asp-97.	AR165: 8, AR164: 8, AR197: 8, AR196: 7, AR198: 7, AR166: 7, AR291: 7, AR207: 7, AR193: 7, AR275: 7, AR240: 7, AR250: 7, AR274: 6, AR176: 6, AR245: 6, AR204: 6, AR246: 6, AR039: 6, AR201: 6, AR243: 5, AR195: 5, AR271: 5, AR189: 5, AR096: 5, AR191: 5, AR297: 5, AR190: 5, AR264: 5, AR212: 5, AR269: 5, AR261: 5, AR293: 5, AR247: 5, AR309: 5, AR053: 5, AR272: 5, AR188: 5, AR170: 4, AR242: 4, AR225: 4, AR254: 4, AR263: 4, AR200: 4, AR199: 4, AR060: 4, AR287: 4, AR316: 4, AR290: 4, AR203: 4, AR173: 4, AR311: 4, AR312: 4, AR177: 4, AR218: 4, AR172: 4, AR289: 4, AR270: 4, AR299: 4, AR175: 4, AR183: 4, AR174: 4, AR213: 4, AR308: 4, AR211: 4, AR295: 3, AR296: 3, AR181: 3, AR283: 3, AR219: 3, AR168: 3, AR300: 3, AR268: 3, AR104: 3, AR257: 3, AR229: 3, AR288: 3, AR285: 3, AR055: 3, AR205: 3, AR234: 3,					167410, 172430, 600975
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[illegible]

2134	HSKDEI3	845997	2144	132 - 191	4741			1, H0424: 1, H0213: 1, H0617: 1, H0673: 1, H0169: 1, H0376: 1, H0087: 1, H0413: 1, H0623: 1, S0344: 1, S0210: 1, S0426: 1, L0369: 1, L0762: 1, L0763: 1, L5565: 1, L0772: 1, L0767: 1, L0775: 1, L0523: 1, L0806: 1, L0776: 1, L0655: 1, L0783: 1, L0519: 1, L0790: 1, S0148: 1, S0310: 1, H0659: 1, H0651: 1, H0539: 1, H0555: 1, S03014: 1, S0027: 1, L0743: 1, L0748: 1, L0439: 1, L0755: 1, L0758: 1, L0759: 1, L0592: 1, L0593: 1, L0603: 1, H0668: 1, S0424: 1 and H0352: 1.		
								L0777: 13, L0766: 10, L0731: 10, H0640: 9, H0547: 9, H0038: 7, L0439: 7, L0752: 7, L0758: 7, S0003: 6, L0770: 6, L0754: 6, L0779: 6, L0759: 6, L0774: 5, S0126: 5, H0657: 4, H0486: 4, S0426: 4, L0598: 4, L0776: 4, H0539: 4, H0624: 3, H0575: 3, H0040: 3, L0803: 3, L0775: 3, L0655: 3, L0659: 3, L0438: 3, S0152: 3, L0745: 3, L0596: 3, L0608: 3, L0594: 3, L0362: 3, H0542: 3, H0170: 2, H0685: 2, S0040: 2, H0650: 2, H0656: 2, S0116: 2, H0661: 2, S0360: 2, S0046: 2, H0550: 2, H0592: 2, H0497: 2, H0036: 2, H0590: 2, S0474: 2, H0014: 2, H0622: 2, H0424: 2, H0591: 2, H0623: 2, S0440: 2, H0641: 2, S0344: 2, S0210: 2, H0529: 2, L0763: 2, L0761: 2, L0764: 2, L0662: 2, L0651: 2, L0378: 2, L0806: 2, L0555: 2, L0789: 2,	17	

2135	HSKDS47	719749	2145	740 - 793	4742				2, L0790: 2, L0792: 2, L0666: 2, L0664: 2, L0665: 2, H0435: 2, S0330: 2, H0696: 2, S0406: 2, S0028: 2, L0743: 2, L0740: 2, L0753: 2, S0434: 2, L0587: 2, H0423: 2, S0412: 2, H0394: 1, H0395: 1, H0556: 1, S0342: 1, S0134: 1, S0218: 1, L0002: 1, H0663: 1, S0354: 1, S0358: 1, S0045: 1, S0476: 1, L0717: 1, S0222: 1, H0441: 1, H0415: 1, H0574: 1, H0013: 1, H0635: 1, H0253: 1, S0010: 1, H0318: 1, S0049: 1, H0052: 1, H0251: 1, T0115: 1, H0046: 1, H0563: 1, H0024: 1, L0163: 1, H0083: 1, H0594: 1, S0214: 1, H0328: 1, H0644: 1, L0055: 1, H0673: 1, H0674: 1, S0036: 1, H0135: 1, H0616: 1, H0551: 1, H0412: 1, H0413: 1, T0042: 1, H0494: 1, H0561: 1, S0438: 1, S0422: 1, UNKWN: 1, L0369: 1, L0520: 1, L0625: 1, L0769: 1, L0637: 1, L0627: 1, L0772: 1, L0773: 1, L0521: 1, L0768: 1, L0522: 1, L0804: 1, L0650: 1, L0375: 1, L0606: 1, L0807: 1, L0656: 1, L0530: 1, L0788: 1, L4501: 1, L0663: 1, S0216: 1, S0374: 1, L0352: 1, H0659: 1, H0660: 1, H0648: 1, H0672: 1, S0328: 1, H0518: 1, H0436: 1, H0478: 1, S3012: 1, S0027: 1, L0747: 1, L0749: 1, L0750: 1, L0780: 1, H0445: 1, L0592: 1, L0361: 1, S0192: 1, H0543: 1 and L0697: 1.		
2135	HSKDS47	719749	2145	740 - 793	4742				AR060: 9, AR316: 7, AR089: 5		



2136	HSKHV81	841590	2146	183 - 293	4743				H0497: 1, S3014: 1 and L0779: 1.			
2137	HSKXB14	834517	2147	315 - 431	4744				AR089: 10, AR316: 9, AR060: 8 L0103: 2, S0206: 2, S0276: 2, S0001: 1, H0619: 1, H0392: 1, H0333: 1, H0050: 1, H0286: 1, H0628: 1, H0641: 1, L0770: 1, L0761: 1, L0794: 1, L0806: 1, L0776: 1, L0790: 1, L0792: 1, L0666: 1, H0144: 1, H0648: 1, H0539: 1, S0037: 1 and L0757: 1.			
2138	HSKYR49	806548	2148	2066 - 2311	4745	Met-1 to Ser-6, Pro-23 to His-28, His-35 to Gln-40, Gln-52 to Pro-59, Pro-63 to Ser-69.			AR060: 5, AR316: 5, AR089: 4 H0253: 4, H0038: 4, L0794: 4, L0748: 4, L0754: 4, H0677: 4, H0618: 3, H0616: 3, L0806: 3, L0758: 3, H0013: 2, S0150: 2, L0665: 2, L0439: 2, H0661: 1, S0418: 1, S0410: 1, S0007: 1, S0626: 1, S0300: 1, L0717: 1, H0050: 1, H0266: 1, H0622: 1, L0769: 1, L0637: 1, L0372: 1, L0805: 1, L0776: 1, L0790: 1, S0328: 1, S0206: 1, L0589: 1, H0665: 1 and H0422: 1.			
2139	HSKYU81	899335	2149	121 - 273	4746	Pro-21 to Lys-27, Thr-42 to Gln-49.			AR089: 7, AR060: 6, AR316: 5, AR214: 3, AR053: 3, AR282: 3, AR221: 3, AR176: 3, AR180: 3, AR224: 2, AR264: 2, AR308: 2, AR212: 2, AR205: 2, AR168: 2, AR216: 1, AR165: 1, AR252: 1, AR164: 1, AR213: 1, AR166: 1, AR217: 1, AR283: 1, AR299: 1,	12p12.3		103950, 200990, 602096

								AR270: 1, AR181: 1, AR293: 1, AR169: 1, AR277: 1, AR193: 1, AR300: 1, AR236: 1, AR183: 1, AR196: 1, AR257: 1, AR172: 1 H0519: 7, H0521: 6, L0595: 6, S0276: 6, H0616: 5, L0593: 5, S0222: 4, H0265: 3, H0038: 3, H0040: 3, H0634: 3, L0770: 3, L0438: 3, H0547: 3, L0748: 3, L0731: 3, L0758: 3, H0624: 2, H0556: 2, S0114: 2, H0657: 2, S0418: 2, H0013: 2, H0156: 2, S0010: 2, H0581: 2, L0471: 2, H0024: 2, H0266: 2, H0031: 2, H0623: 2, H0100: 2, H0561: 2, H0529: 2, L0769: 2, L0776: 2, L0659: 2, L0666: 2, L0665: 2, H0520: 2, H0539: 2, L0439: 2, L0740: 2, L0754: 2, L0749: 2, L0780: 2, L0596: 2, H0542: 2, S0470: 1, S0040: 1, H0716: 1, H0295: 1, S0134: 1, H0656: 1, H0484: 1, S0420: 1, S0356: 1, S0358: 1, S0408: 1, H0637: 1, S0045: 1, L0717: 1, H0592: 1, S0005: 1, H0497: 1, H0574: 1, L0021: 1, H0599: 1, S0346: 1, H0421: 1, S0049: 1, L0032: 1, H0263: 1, H0596: 1, H0597: 1, H0457: 1, H0150: 1, H0009: 1, H0012: 1, H0083: 1, H0510: 1, S6028: 1, H0687: 1, S0003: 1, H0039: 1, T0006: 1, H0628: 1, L0456: 1, S0036: 1, H0135: 1, H0551: 1, H0412: 1, H0413: 1, H0202: 1, H0494: 1, S0464: 1, S0422: 1, S0002: 1, L0638: 1, L0761: 1, L0667: 1, L0646:	
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2140	HSKYY92	853384	2150	133 - 183	4747			1, L0800: 1, L0771: 1, L0521: 1, L0662: 1, L0805: 1, L0655: 1, L0657: 1, L0558: 1, L0647: 1, L0789: 1, L0663: 1, H0144: 1, H0670: 1, H0660: 1, H0648: 1, H0672: 1, H0518: 1, S0152: 1, H0134: 1, S0406: 1, H0436: 1, H0479: 1, S0432: 1, S0390: 1, S3014: 1, S0206: 1, S0032: 1, L0750: 1, L0753: 1, L0759: 1, S0260: 1, H0445: 1, S0026: 1, S0194: 1, H0423: 1 and H0721: 1.		
2141	HSLAB11	823825	2151	1409 - 1549	4748			AR060: 4, AR316: 4, AR089: 4 S0206: 1 L0754: 26, L0748: 16, L0740: 13, S0126: 8, S0028: 7, L0439: 7, S0222: 4, S0003: 4, S3014: 4, S0206: 4, H0051: 3, H0266: 3, H0031: 3, L0794: 3, S0152: 3, S0390: 3, S0027: 3, L0752: 3, L0591: 3, L0608: 3, H0341: 2, H0299: 2, T0039: 2, H0013: 2, H0036: 2, S0010: 2, H0123: 2, L0471: 2, S0250: 2, H0644: 2, H0169: 2, H0429: 2, L0803: 2, L0792: 2, L0438: 2, H0547: 2, S3012: 2, L0747: 2, S0260: 2, L0588: 2, H0171: 1, S0114: 1, S0212: 1, S0282: 1, S0400: 1, H0241: 1, H0402: 1, S0420: 1, S0358: 1, H0580: 1, H0586: 1, H0486: 1, T0040: 1, S0346: 1, L0157: 1, H0071: 1, T0010: 1, S6028: 1, H0687: 1, H0252: 1, T0006: 1, H0030: 1, H0553: 1, H0068: 1, S0036: 1, H0560: 1, H0509: 1, L0646: 1, L0659: 1, L0790: 1, H0519: 1.		

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2142	HSLAS96	740764	2152	99 - 179	4749				AR089: 178, AR316: 152, AR060: 129 H0305: 2, S0134: 1, S0028: 1 and S0011: 1.			
2143	HSLAW59	637669	2153	18 - 173	4750			Ser-22 to Gly-34.	S0053: 1 and S0028: 1.			
2144	HSLCH54	562018	2154	58 - 243	4751			Ala-21 to Val-28, Ser-54 to Met-60.	AR089: 19, AR316: 15, AR060: 12 S0028: 2, H0580: 1, H0261: 1, H0586: 1, H0050: 1, H0051: 1, H0594: 1, S0150: 1 and H0667: 1.			
2145	HSLCH57	899415	2155	101 - 448	4752			Thr-108 to Pro-115.	AR089: 9, AR316: 8, AR060: 8 L0777: 7, S0358: 5, L0439: 5, L0751: 5, H0135: 4, H0265: 3, H0556: 3, L0770: 3, L0769: 3, L0662: 3, L0731: 3, H0305: 2, H0546: 2, H0083: 2, L0142: 2, S0208: 2, S0002: 2, L0768: 2, L0663: 2, L0665: 2, H0521: 2, L0741: 2, L0747: 2, L0779: 2, H0543: 2, H0149: 1, H0657: 1, S0116: 1, S0001: 1, H0663: 1, S0356: 1, S0354: 1, H0580: 1, S0045: 1, H0549: 1, S6014: 1, H0309: 1, H0085: 1, H0234: 1, H0597: 1, H0544: 1, H0123: 1, H0012: 1, H0024: 1, H0356: 1, H0594: 1, T0006: 1, H0424: 1, H0644: 1, H0182: 1, H0617: 1, L0055: 1, H0673: 1, H0169: 1, H0038: 1, H0040: 1, H0100: 1, L0351: 1, T0041: 1, H0561: 1, H0132: 1, L0763: 1, L0638: 1, L0637: 1, L0372: 1, L0765: 1.			

2146	HSLCI86	737626	2156	598 - 639	4753				1, L0648: 1, L0649: 1, L0774: 1, L0375: 1, L0807: 1, L0545: 1, L0529: 1, L0788: 1, L0666: 1, L0664: 1, S0374: 1, H0691: 1, H0658: 1, H0670: 1, H0666: 1, S0044: 1, S0028: 1, L0744: 1, L0749: 1, L0755: 1, L0758: 1, H0445: 1, L0593: 1 and H0352: 1.		
2147	HSLCS31	604046	2157	13 - 1050	4754	Lys-51 to Lys-56, Asn-74 to Gln-81, Lys-187 to Asp-196, Val-275 to Lys-280, Thr-314 to Ser-320.			AR060: 5, AR316: 4, AR089: 3 L0747: 5, L0750: 2, H0657: 1, H0263: 1, S0036: 1, T0042: 1, H0560: 1, L0764: 1, L0766: 1, L0774: 1, L0775: 1, L0658: 1, L0659: 1, L0664: 1, S0152: 1, S0028: 1, L0749: 1, L0777: 1, S0260: 1 and H0668: 1.	5	
2148	HSLCS34	751324	2158	61 - 384	4755	Asp-27 to Thr-32, Leu-64 to Trp-69.			L0717: 2, L0758: 2, S0212: 1, H0587: 1, H0551: 1, H0413: 1, L0376: 1, L0776: 1, L0659: 1, L0809: 1, H0520: 1, H0519: 1, H0631: 1, S0028: 1, L0777: 1, L0731: 1 and S0434: 1.		
2149	HSLCV16	772948	2159	965 - 1093	4756				AR060: 6, AR316: 5, AR089: 3 L0439: 8, H0556: 6, L0766: 4, L0740: 4, S0420: 3, S0222: 3, L0749: 3, H0265: 2, S0418: 2, H0393: 2, T0039: 2, H0013: 2, H0012: 2, L0769: 2, L0768: 2, L0809: 2, L0565: 2, H0547: 2, S0126: 2, S0027: 2, L0743: 2, L0748: 2, L0751: 2, L0747: 2.		

2150	HSLDW54	853386	2160	153 - 362	4757		2, L0779: 2, L0731: 2, L0758: 2, H0171: 1, T0002: 1, H0224: 1, H0657: 1, H0177: 1, H0402: 1, H0580: 1, H0600: 1, H0486: 1, L0021: 1, H0042: 1, S0010: 1, H0421: 1, H0196: 1, H0009: 1, L0471: 1, H0620: 1, H0024: 1, S0051: 1, H0594: 1, H0247: 1, H0266: 1, S0214: 1, S0364: 1, H0598: 1, H0135: 1, H0264: 1, H0413: 1, S0038: 1, L0370: 1, T0042: 1, H0334: 1, H0647: 1, L0763: 1, L0772: 1, L0372: 1, L0662: 1, L0805: 1, L0659: 1, L0518: 1, L0647: 1, H0697: 1, S0380: 1, H0518: 1, H0521: 1, S0146: 1, H0576: 1, S0028: 1, L0777: 1, L0752: 1, H0445: 1, H0595: 1, L0588: 1 and H0542: 1.		
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2151	HSLEC18	722249	2161	270 - 1322	4758	Ala-42 to Pro-47, Pro-62 to His-68, Pro-83 to Asn-92, His-94 to Gln-103, Ala-111 to Asn-119, Thr-131 to Ile-137, Glu-246 to Arg-252, Ser-308 to Cys-315, Lys-326 to Phe-334, Lys-343 to Leu-348.			AR089: 18, AR316: 13, AR060: 8 H0255: 2, S0356: 2, S0028: 2, L0740: 2, S0040: 1, S0358: 1, H0261: 1, H0486: 1, H0009: 1, H0272: 1, L0776: 1, S0126: 1, S0037: 1, S0011: 1, H0667: 1 and H0352: 1.		
2152	HSLEG59	637671	2162	87 - 197	4759				L0794: 1 and S0028: 1.		
2153	HSLFR59	853388	2163	320 - 496	4760	Arg-21 to Cys-26, Pro-41 to Tyr-47, Val-50 to Lys-58.			AR291: 27, AR292: 23, AR285: 18, AR296: 16, AR298: 15, AR294: 15, AR284: 15, AR033: 14, AR182: 14, AR295: 14, AR293: 13, AR268: 12, AR286: 12, AR183: 11, AR259: 11, AR269: 11, AR290: 11, AR104: 11, AR258: 10, AR270: 10, AR289: 10, AR248: 10, AR253: 10, AR218: 10, AR175: 10, AR219: 9, AR186: 9, AR266: 8, AR256: 8, AR249: 8, AR313: 8, AR310: 8, AR179: 8, AR312: 8,		

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2154	HSLGD91	883491	2164	70 - 87	4761		L0748: 6, L0666: 5, L0665: 5, L0768: 4, L0777: 4, L0595:						



2155	HSLGF66	596824	2165	226 - 258	4762			4, H0352: 4, S0045: 3, H0124: 3, L0774: 3, S0028: 3, L0439: 3, L0756: 3, L0592: 3, S0376: 2, S0360: 2, H0619: 2, S0222: 2, H0635: 2, H0036: 2, H0052: 2, H0046: 2, L0041: 2, S0312: 2, H0551: 2, L0764: 2, L0663: 2, H0144: 2, L0751: 2, L0745: 2, L0731: 2, L0589: 2, H0653: 2, H0136: 2, H0216: 2, H0624: 1, S0024: 1, S0430: 1, H0656: 1, H0255: 1, S0046: 1, H0645: 1, H0370: 1, H0013: 1, H0156: 1, H0575: 1, H0050: 1, S0050: 1, H0373: 1, H0687: 1, S0314: 1, S0250: 1, H0031: 1, H0135: 1, H0634: 1, H0616: 1, H0380: 1, H0264: 1, H0433: 1, H0059: 1, L0351: 1, L0800: 1, L0662: 1, L0766: 1, L0803: 1, L0375: 1, L0655: 1, L0659: 1, L0783: 1, L0809: 1, L0664: 1, S0126: 1, H0648: 1, S0152: 1, H0521: 1, S0390: 1, S0314: 1, L0754: 1, L0749: 1, L0750: 1, L0758: 1, L0759: 1, S0260: 1 and L0366: 1.		
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2156	HSLGF70	741063	2166	890 - 982	4763			AR060: 4, AR316: 4, AR089: 3 S0028: 2, H0497: 1, H0052: 1		

2157	HSLGP68	853389	2167	166 - 246	4764			1, L0387: 1, L0805: 1, L0789: 1 and L0666: 1. AR060: 3, AR316: 2, AR089: 1 L0439: 10, S0010: 7, H0052: 6, L0769: 3, L0776: 3, S0028: 3, S0007: 2, L0742: 2, S0222: 1, S0049: 1, H0201: 1, L0351: 1, H0538: 1, L0630: 1, L0805: 1, L0789: 1, L0352: 1 and L0752: 1. H0163: 1			
2158	HSNAB88	600324	2168	262 - 309	4765			H0163: 1			
2159	HSNAH56	825116	2169	171 - 308	4766		Lys-2 to Trp-8.	AR060: 4, AR316: 3, AR089: 1 H0163: 1			
2160	HSNAN38	853391	2170	240 - 401	4767		Tyr-46 to Glu-53.	AR060: 9, AR316: 8, AR089: 7 L0754: 9, L0439: 6, L0438: 5, H0521: 4, L0770: 3, L0752: 3, L0600: 3, S0360: 2, H0574: 2, H0014: 2, S0003: 2, L0766: 2, S0126: 2, L0748: 2, L0756: 2, H0686: 1, S0298: 1, S0212: 1, S0110: 1, H0638: 1, S0420: 1, S0358: 1, S0444: 1, S0408: 1, S0222: 1, H0586: 1, H0575: 1, H0590: 1, S0010: 1, S0049: 1, H0052: 1, H0309: 1, H0544: 1, H0046: 1, L0471: 1, H0266: 1, H0031: 1, H0553: 1, H0644: 1, H0163: 1, H0090: 1, T0067: 1, T0069: 1, T0041: 1, S0440: 1, H0641: 1, S0426: 1, L0761: 1, L0372: 1, L0764: 1, L0768: 1, L0803: 1, L0804: 1, L0806: 1, L0659: 1, L0665: 1, S0374: 1, H0691: 1, S0148: 1, H0689: 1, H0682: 1, H0658: 1, H0670: 1, H0522: 1, S0406: 1, S0027: 1, L0755: 1, L0759: 1, S0011: 1			

2161	HSNAO19	638294	2171	226 - 240	4768		1, H0667: 1 and S0192: 1. AR089: 6, AR316: 6, AR060: 5 L0747: 17, L0752: 10, L0599: 10, L0750: 6, L0438: 5, L0439: 5, H0052: 3, L0598: 3, L0754: 3, H0632: 2, H0030: 2, L0764: 2, L0771: 2, H0648: 2, S0378: 2, L0748: 2, L0756: 2, L0759: 2, L0591: 2, S0242: 2, S0418: 1, S0376: 1, S0360: 1, H0574: 1, L0022: 1, H0184: 1, L0040: 1, H0597: 1, H0123: 1, L0471: 1, L0171: 1, H0687: 1, S0003: 1, L0141: 1, H0169: 1, H0124: 1, H0163: 1, H0087: 1, L0640: 1, L0373: 1, L0646: 1, L0378: 1, L0776: 1, L0783: 1, L0809: 1, L0532: 1, L0663: 1, L0664: 1, S0374: 1, S0328: 1, S0454: 1, S0432: 1, L0749: 1, L0731: 1 and S0276: 1.	19q13.3-q13.4	113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 191044, 258501, 600040, 600138, 602225, 602225
2162	HSNAQ52	600402	2172	218 - 247	4769		H0163: 1		
2163	HSNAT08	825136	2173	25 - 165	4770	Glu-32 to Tyr-43.	H0163: 1		
2164	HSNAW06	580248	2174	174 - 212	4771		H0637: 1, H0163: 1, L0769: 1 and L0367: 1.		
2165	HSNAW37	600403	2175	237 - 323	4772		AR060: 6, AR316: 5, AR089: 3 H0163: 1		
2166	HSNB105	695758	2176	136 - 240	4773		S0276: 19, L0748: 10, H0556: 8, S0360: 8, L0757: 7, H0543: 7, L0438: 6, H0529: 5, H0519: 5, L0750: 5, S0278: 4, H0013: 4, H0009: 4, L0754: 4, L0749: 4, L0592: 4, H0265: 3, H0341: 3, S0045: 3, H0620: 3, S0050: 3, H0032: 3, T0041: 3, S0142: 3, S0152: 3, H0436: 3, L0740: 3, L0747: 3, L0756: 3,	21q22.3	120220, 120240, 123580, 151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145

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							L0591: 3, H0331: 2, H0318: 2, H0050: 2, H0068: 2, H0598: 2, H0135: 2, H0090: 2, H0494: 2, H0625: 2, H0561: 2, S0440: 2, H0131: 2, S0210: 2, L0649: 2, L0653: 2, L0654: 2, L0663: 2, L0665: 2, H0144: 2, H0520: 2, H0547: 2, S0126: 2, H0660: 2, H0672: 2, H0539: 2, S0136: 2, H0521: 2, S0206: 2, L0751: 2, L0755: 2, L0731: 2, L0758: 2, S0434: 2, L0590: 2, L0601: 2, S0011: 2, H0667: 2, H0422: 2, S0040: 1, H0484: 1, H0255: 1, H0661: 1, S0354: 1, H0580: 1, H0208: 1, H0393: 1, H0351: 1, H0441: 1, H0370: 1, H0586: 1, H0587: 1, H0497: 1, H0333: 1, H0574: 1, H0559: 1, H0486: 1, T0114: 1, H0069: 1, H0427: 1, H0575: 1, T0082: 1, S0010: 1, T0048: 1, S0182: 1, H0581: 1, S0049: 1, H0052: 1, H0251: 1, H0309: 1, T0115: 1, H0327: 1, H0563: 1, H0123: 1, H0081: 1, H0012: 1, T0003: 1, H0373: 1, H0051: 1, H0083: 1, H0375: 1, H0099: 1, H0266: 1, S0316: 1, H0288: 1, L0143: 1, H0111: 1, H0628: 1, H0166: 1, H0212: 1, S0364: 1, S0366: 1, H0163: 1, H0063: 1, H0551: 1, H0264: 1, T0042: 1, S0448: 1, H0646: 1, S0344: 1, L0772: 1, L0648: 1, L0774: 1, L0775: 1, L0651: 1, L0806: 1, L0807: 1, L0657: 1, L0659: 1, L4501: 1, H0698: 1, H0693: 1, H0593: 1, H0689: 1, H0670: 1, H0648: 1, S0380: 1, H0710: 1, H0522: 1, H0696: 1,
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2167	HSNBO90	600330	2177	286 - 336	4774			S0406: 1, H0187: 1, H0478: 1, H0627: 1, H0631: 1, S0028: 1, L0741: 1, L0439: 1, L0753: 1, L0759: 1, S0031: 1, H0445: 1, L0588: 1, L0366: 1, S0026: 1, S0194: 1, H0542: 1, H0423: 1 and S0424: 1.		
2168	HSNBQ36	784994	2178	838 - 927	4775			H0163: 1		
								L0526: 3, H0624: 2, H0013: 2, H0427: 2, S0380: 2, L0745: 2, L0759: 2, H0170: 1, H0171: 1, S0408: 1, T0039: 1, H0051: 1, H0428: 1, H0163: 1, L0598: 1, L0763: 1, L0662: 1, L0774: 1, L0659: 1, L0663: 1, H0365: 1, H0555: 1 and H0542: 1.	14	
2169	HSNBS39	617125	2179	190 - 234	4776			AR060: 4, AR316: 3, AR089: 2		
2170	HSOAE34	786645	2180	231 - 257	4777			H0163: 1 and L0747: 1.		
2171	HSOAT44	847357	2181	31 - 198	4778		Thr-33 to Ala-43.	H0265: 1, H0271: 1 and H0343: 1.		
								H0713: 9, H0717: 8, H0427: 6, L0769: 6, L0743: 6, L0744: 5, L0758: 5, H0716: 4, S0280: 4, H0052: 4, H0617: 4, L0771: 4, H0556: 3, H0036: 3, H0251: 3, H0046: 3, L0766: 3, L0774: 3, L0665: 3, L0748: 3, L0777: 3, L0757: 3, H0265: 2, S0358: 2, S0046: 2, S0132: 2, H0575: 2, H0546: 2, H0620: 2, H0165: 2, S0344: 2, S0002: 2, L0763: 2, L0761: 2, L0522: 2, L0659: 2, L0783: 2, H0521: 2, L0740: 2, L0749: 2, L0755: 2, H0445: 2, L0596: 2, L0592: 2, H0584: 2, H0685: 1, S0402: 1, H0295: 1, T0049: 1, S0134: 1, H0583: 1, H0657: 1, H0656: 1, H0484: 1.	3	

2172	HSOBB94	838617	2182	565 - 732	4779	Lys-16 to Tyr-34.	1, H0254: 1, H0255: 1, H0661: 1, H0458: 1, S0418: 1, S0356: 1, S0376: 1, S0360: 1, H0492: 1, L0623: 1, H0486: 1, H0590: 1, H0253: 1, T0048: 1, T0071: 1, S0049: 1, T0001: 1, H0196: 1, H0309: 1, T0110: 1, H0012: 1, H0024: 1, H0284: 1, T0023: 1, H0181: 1, H0032: 1, H0383: 1, S0366: 1, H0090: 1, H0268: 1, H0412: 1, T0041: 1, H0509: 1, H0130: 1, H0633: 1, S0144: 1, S0422: 1, L0770: 1, L0638: 1, L0764: 1, L0773: 1, L0662: 1, L0794: 1, L0803: 1, L0804: 1, L0650: 1, L0375: 1, L0805: 1, L0776: 1, L0655: 1, L0658: 1, L0384: 1, L0544: 1, L0529: 1, L0541: 1, L0647: 1, L0793: 1, L0664: 1, S0052: 1, S0428: 1, L0438: 1, H0520: 1, H0519: 1, H0658: 1, S0146: 1, H0555: 1, L0742: 1, L0439: 1, L0756: 1, L0779: 1, L0731: 1, H0343: 1, L0591: 1, S0106: 1, S0011: 1, S0026: 1, H0542: 1, H0543: 1, H0423: 1 and H0506: 1.		
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2173	HSOBH11	794000	2183	131 - 169	4780			1, S0152: 1, S0028: 1, L0740: 1, L0751: 1, L0779: 1, L0780: 1, L0752: 1, L0757: 1, L0759: 1, H0595: 1 and S0242: 1.		
2174	HSOBP75	778361	2184	438 - 569	4781		Phe-26 to Tyr-31, His-34 to Ser-43.	H0595: 1		
2175	HSOBW65	778388	2185	387 - 443	4782			L0766: 5, L0527: 2, L0748: 2, L0749: 2, H0543: 2, S0212: 1, H0402: 1, H0156: 1, S0049: 1, H0477: 1, H0413: 1, L0776: 1, L0659: 1, L0544: 1, L0750: 1, L0777: 1, L0758: 1 and H0595: 1.		
2176	HSPAA89	825099	2186	252 - 419	4783			H0595: 1		
2177	HSPAC13	605047	2187	33 - 146	4784			H0478: 1	11q23	107680, 107680, 107680, 107680, 107680, 107720, 133780, 147791, 159555, 168000, 186740, 186830, 188025, 203750, 261640, 600048, 601382, 602574, 602574
2178	HSPAG75	884779	2188	246 - 359	4785			L0749: 5, L0748: 4, L0740: 4, H0063: 3, L0758: 3, H0428: 2, L0768: 2, L0766: 2, L0774: 2, L0805: 2, L0755: 2, S0358: 1, L0717: 1, H0252: 1, L0483: 1, H0674: 1, H0633: 1, S0422: 1, L0803: 1, L0657: 1, L0438: 1, H0670: 1, S0380: 1, H0478: 1, L0756: 1, L0777: 1, L0780: 1 and S0192: 1.		
2179	HSPAI20	588409	2189	261 - 395	4786		Ser-30 to Phe-40.	AR089: 3, AR316: 3, AR060: 2 H0478: 1		
								AR263: 6, AR251: 2, AR269: 2, AR274: 2, AR238: 2, AR277: 2, AR052: 2, AR282: 2, AR175: 2, AR198: 2, AR309: 2, AR247: 2, AR295: 2, AR229: 1, AR293: 1, AR312: 1, AR289: 1, AR053: 1, AR033: 1, AR273: 1, AR055: 1, AR296: 1, AR268: 1, AR184: 1,		

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2180	HSPAL59	851816	2190	250 - 351	4787			H0478: 20, H0486: 2, H0479: 2, L0762: 1, H0539: 1 and S0392: 1.			
2181	HSPAY90	827308	2191	190 - 339	4788			AR089: 48, AR316: 35, AR060: 23 L0748: 29, L0439: 21, L0666: 16, L0740: 16, L0757: 16, H0556: 14, L0747: 13, L0752: 13, L0596: 13, L0758: 12, H0547: 10, L0754: 10, L0731: 10, L0659: 9, L0749: 9, L0750: 9, L0601: 9, H0550: 8, L0662: 8, H0265: 7, S0420: 7, H0494: 7, L0776: 7, L0664: 7, L0751: 7, S0046: 6, H0486: 6, H0013: 6, H0575: 6, H0135: 6, H0040: 6, L0769: 6, L0761: 6, L0771: 6, L0777: 6, S0418: 5, S0360: 5, H0208: 5, S0132: 5, H0549: 5, H0370: 5, H0587: 5, L0471: 5, H0083: 5, H0617: 5, H0529: 5, L0809: 5, L0663: 5, L0438: 5, H0519: 5, H0670: 5, S0406: 5, H0436: 5, L0595: 5, H0624: 4, H0686: 4, H0483: 4, S0358: 4, S0410: 4, L0717: 4, H0559: 4, H0050: 4, T0010: 4, H0266: 4, L0763: 4, L0637: 4, L0766: 4, L0665: 4, H0144: 4, H0658: 4, S3014: 4, L0605: 4, H0657: 3, H0341: 3, S0376: 3, S0045: 3, H0619: 3, S0222: 3, H0431: 3, T0039: 3, H0318: 3, H0052: 3, H0327: 3, H0545: 3, H0024: 3, H0014: 3, H0644:	7q11.23	116860, 129900, 233700, 600079	



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2182	HSPMF63	815251	2192	179 - 280	4789				1, S0346: 1, S0474: 1, H0581: 1, H0194: 1, H0251: 1, H0085: 1, L0738: 1, H0544: 1, H0150: 1, H0009: 1, H0178: 1, H0123: 1, H0012: 1, H0620: 1, H0057: 1, H0051: 1, H0201: 1, S0388: 1, H0510: 1, H0375: 1, H0179: 1, H0271: 1, S0340: 1, S0022: 1, H0039: 1, H0622: 1, H0553: 1, H0628: 1, H0673: 1, H0674: 1, S0364: 1, L0456: 1, S0366: 1, H0090: 1, H0551: 1, T0067: 1, H0413: 1, H0056: 1, L0351: 1, S0448: 1, S0306: 1, S0440: 1, H0132: 1, H0641: 1, H0646: 1, S0422: 1, UNKWN: 1, H0026: 1, L0371: 1, L0631: 1, L0638: 1, L0641: 1, L0767: 1, L0649: 1, L0522: 1, L0650: 1, L0805: 1, L0654: 1, L0661: 1, L0629: 1, L0807: 1, L0636: 1, L0517: 1, L0518: 1, L0783: 1, L0367: 1, L0791: 1, S0428: 1, S0053: 1, H0702: 1, L0565: 1, L0352: 1, S0122: 1, H0690: 1, H0684: 1, H0660: 1, H0539: 1, S0380: 1, H0710: 1, S0146: 1, H0555: 1, S0206: 1, L0744: 1, H0445: 1, L0589: 1, L0592: 1, L0593: 1, L0594: 1, S0011: 1, H0136: 1, H0543: 1, H0423: 1 and H0422: 1. AR089: 10, AR316: 7, AR060: 5 L0794: 10, L0803: 7, L0666: 7, L0439: 5, L0777: 5, L0771: 4, L0438: 4, L0731: 4, L0804: 3, L0485: 3, H0457: 2, H0674: 2, L0774: 2, L0659: 2, L0517: 2, L0747: 2, L0779: 2, L0758: 2
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2183	HSQAC69	876528	2193	671 - 808	4790			2, L0759: 2, L0588: 2, L0589: 2, S0026: 2, H0170: 1, H0685: 1, S0040: 1, S0358: 1, H0339: 1, H0229: 1, H0370: 1, H0632: 1, H0013: 1, S0280: 1, H0590: 1, H0581: 1, H0231: 1, H0009: 1, H0051: 1, H0166: 1, L0640: 1, L0638: 1, L0764: 1, L0662: 1, L0375: 1, L0789: 1, L0663: 1, L0665: 1, H0659: 1, H0670: 1, H0648: 1, H0539: 1, S0188: 1, H0479: 1, L0752: 1, L0591: 1 and L0594: 1.		
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2184	HSQAH14	824077	2194	267 - 308	4791		1 and S0424: 1. AR252: 9, AR235: 8, AR264: 7, AR245: 6, AR176: 6, AR180: 6, AR198: 6, AR263: 6, AR261: 6, AR053: 6, AR271: 6, AR161: 5, AR196: 5, AR309: 5, AR197: 5, AR162: 5, AR163: 5, AR178: 5, AR312: 5, AR165: 5, AR195: 5, AR179: 5, AR295: 5, AR096: 4, AR177: 4, AR193: 4, AR246: 4, AR166: 4, AR164: 4, AR275: 4, AR272: 4, AR089: 4, AR291: 4, AR282: 4, AR175: 4, AR253: 4, AR182: 4, AR060: 4, AR266: 4, AR183: 4, AR274: 4, AR308: 4, AR299: 4, AR213: 4, AR212: 4, AR189: 4, AR270: 4, AR191: 4, AR181: 3, AR296: 3, AR190: 3, AR285: 3, AR268: 3, AR288: 3, AR104: 3, AR297: 3, AR236: 3, AR269: 3, AR199: 3, AR174: 3, AR316: 3, AR267: 3, AR169: 3, AR240: 3, AR188: 3, AR255: 3, AR311: 3, AR039: 3, AR171: 3, AR287: 3, AR204: 3, AR033: 3, AR283: 3, AR173: 3, AR257: 3, AR238: 3, AR201: 3, AR192: 3,	10q25	167409, 278000, 278000, 600020, 600095, 602669, 602669
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2185	HSQAX94	838800	2195	886 - 1131	4792	1, H0351: 1, H0370: 1, H0586: 1, H0635: 1, H0599: 1, S0346: 1, H0318: 1, H0581: 1, H0251: 1, H0263: 1, H0545: 1, H0046: 1, L0471: 1, H0375: 1, H0687: 1, H0622: 1, T0006: 1, H0553: 1, S0366: 1, H0598: 1, H0135: 1, H0040: 1, T0067: 1, H0100: 1, L0564: 1, H0494: 1, H0561: 1, L0065: 1, H0529: 1, L0763: 1, L0770: 1, L0761: 1, L0646: 1, L0800: 1, L0764: 1, L0773: 1, L0794: 1, L0806: 1, L0655: 1, L0606: 1, L0635: 1, L0782: 1, L0382: 1, L0790: 1, L0791: 1, L0792: 1, L0793: 1, L0663: 1, S0216: 1, H0144: 1, S0148: 1, H0520: 1, H0519: 1, H0682: 1, H0684: 1, H0435: 1, H0658: 1, H0696: 1, S0044: 1, S0146: 1, S0404: 1, H0436: 1, S0028: 1, L0745: 1, L0750: 1, L0777: 1, L0480: 1, S0026: 1, H0665: 1, H0136: 1, S0194: 1, H0423: 1, S0424: 1 and H0506: 1. L0770: 12, L0777: 7, L0748: 6, L0757: 6, L0794: 5, L0666: 4, L0749: 4, L0803: 3, L0809: 3, L0663: 3, H0521: 3, L0439: 3, L0754: 3, L0756: 3, L0779: 3, S0408: 2, H0412: 2, H0561: 2, L0372: 2, L0766: 2, L0659: 2, L0438: 2, H0658: 2, L0740: 2, H0624: 1, S0116: 1, S0356: 1, H0497: 1, H0574: 1, T0114: 1, H0013: 1, H0599: 1, S0010: 1, T0110: 1, S0003: 1, S0214: 1, H0316: 1, H0056: 1, S0440: 1, H0633: 1, S0002: 1, L0761: 1, L0772: 1, L0641: 1, L0764: 1,	7
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2186	HSQBL20	780518	2196	183 - 836	4793	Ile-18 to Asn-25, Glu-34 to Asn-40, His-93 to Ile-99, Gln-192 to Pro-198.	1, L0662: 1, L0804: 1, L0655: 1, L0515: 1, L0384: 1, L0788: 1, H0520: 1, H0547: 1, H0648: 1, H0672: 1, S0380: 1, S3012: 1, S0027: 1, L0741: 1, L0758: 1, L0599: 1, S0026: 1 and S0424: 1.	19q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 173850, 207750, 248600, 258501
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2187	HSQCC45	604962	2197	41 - 133	4794	Gln-23 to Asp-30.	H0521: 1, H0522: 1, H0214: 1, H0555: 1, H0436: 1, S014: 1, S0028: 1, S0032: 1, L0744: 1, L0779: 1, L0758: 1, H0444: 1, L0608: 1, L0604: 1, L0362: 1, S0026: 1, H0665: 1, S0276: 1, S0196: 1, H0422: 1 and L0600: 1.		
2188	HSQCY74	886110	2198	440 - 478	4795		L0643: 1 and S0026: 1. L0749: 5, H0441: 4, L0803: 4, L0777: 3, S0356: 2, H0393: 2, S0003: 2, H0264: 2, L0766: 2, L0809: 2, H0659: 2, S0330: 2, L0748: 2, L0751: 2, H0717: 1, H0341: 1, H0663: 1, L0717: 1, H0331: 1, H0013: 1, H0036: 1, H0581: 1, H0266: 1, S0214: 1, H0615: 1, H0561: 1, H0641: 1, H0646: 1, S0142: 1, L0761: 1, L0372: 1, L0765: 1, L0662: 1, L0794: 1, L0655: 1, L0382: 1, L0664: 1, L0565: 1, H0547: 1, H0519: 1, H0690: 1, H0435: 1, H0658: 1, H0134: 1, S0406: 1, L0747: 1, L0757: 1, H0445: 1, S0436: 1, L0599: 1, S0026: 1, H0543: 1 and H0422: 1.		1
2189	HSQDM74	581101	2199	192 - 275	4796		L0766: 9, L0803: 8, L0756: 8, L0439: 6, H0422: 6, L0758: 5, S0422: 4, L0659: 4, L0665: 4, H0144: 4, S0328: 4, L0754: 4, L0752: 4, H0171: 3, H0486: 3, H0052: 3, H0046: 3, S0003: 3, H0615: 3, L0794: 3, L0666: 3, H0670: 3, H0696: 3, L0748: 3, H0483: 2, H0013: 2, H0036: 2, L0471: 2, H0375: 2, H0266: 2, H0687: 2, H0622: 2, H0090: 2, H0591: 2, H0551: 2, L0763: 2, L0769: 2, L0646: 2, L0662: 2.	2p21	120435, 120435, 126600, 135300, 136435, 152790, 152790, 157170, 182601, 601771

2190	HSQEG23	829137	2200	302 - 370	4797				2, L0768: 2, L0809: 2, L0789: 2, L0663: 2, H0547: 2, H0658: 2, H0648: 2, S0206: 2, L0747: 2, L0731: 2, H0423: 2, H0686: 1, L0002: 1, S0116: 1, H0662: 1, S0418: 1, L0005: 1, S0358: 1, S0376: 1, H0351: 1, S0222: 1, H0612: 1, H0587: 1, H0574: 1, T0114: 1, H0635: 1, H0427: 1, H0575: 1, H0590: 1, H0004: 1, H0253: 1, H0041: 1, H0567: 1, H0569: 1, H0123: 1, H0024: 1, S6028: 1, H0252: 1, H0688: 1, L0483: 1, H0030: 1, H0628: 1, L0055: 1, H0040: 1, H0379: 1, H0059: 1, S0464: 1, S0450: 1, S0440: 1, H0132: 1, S0210: 1, L0637: 1, L0761: 1, L0667: 1, L0643: 1, L0764: 1, L0364: 1, L0649: 1, L0650: 1, L0774: 1, L0375: 1, L0805: 1, L0653: 1, L0655: 1, L0783: 1, L4501: 1, L0664: 1, L0438: 1, L0352: 1, H0519: 1, S0126: 1, H0660: 1, H0666: 1, H0539: 1, H0522: 1, H0478: 1, S0028: 1, S0032: 1, L0745: 1, L0750: 1, L0779: 1, L0780: 1, L0753: 1, H0445: 1, S0434: 1, S0436: 1, L0608: 1, S0026: 1, S0242: 1 and S0452: 1.		
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2191	HSQEG47	771527	2201	1001 - 1039	4798			1, UNKWN: 1, L0763: 1, L0662: 1, L0363: 1, L0774: 1, L0805: 1, L0652: 1, S0328: 1, S0152: 1, S0432: 1, S0390: 1, L0742: 1, L0740: 1, L0754: 1, L0779: 1, L0758: 1, L0684: 1, L0589: 1, L0608: 1, S0026: 1 and S0242: 1. AR089: 69, AR316: 64, AR060: 59 L0766: 6, L0749: 6, L0742: 5, L0779: 5, L0748: 4, L0439: 4, L0794: 3, L0740: 3, H0171: 2, H0586: 2, L0659: 2, L0754: 2, L0753: 2, L0731: 2, L0758: 2, H0624: 1, H0657: 1, H0341: 1, S0282: 1, S0418: 1, S0354: 1, S0408: 1, H0411: 1, S6022: 1, S0222: 1, H0013: 1, L0021: 1, H0044: 1, H0327: 1, H0457: 1, H0014: 1, H0051: 1, S6028: 1, H0266: 1, S0003: 1, S0214: 1, H0688: 1, H0428: 1, H0068: 1, H0616: 1, S0344: 1, S0002: 1, L0796: 1, L0764: 1, L0662: 1, L0775: 1, L0375: 1, L0784: 1, L0607: 1, L0657: 1, L0636: 1, L0788: 1, L0789: 1, H0144: 1, H0701: 1, H0547: 1, H0670: 1, H0539: 1, L0777: 1, L0759: 1, S0434: 1, L0581: 1, S0026: 1, H0665: 1 and H0422: 1. L0748: 19, L0770: 10, L0500: 9, L0771: 8, L0509: 8, L0749: 6, L0758: 6, H0318: 4, L0764: 4, L0665: 4, L0438: 4, L0745: 4, L0759: 4, S0002: 3, L0506: 3, L0503: 3, L0766: 3, L0776: 3, L0493: 3, L0666: 3, H0659: 3, L0744: 3, L0752: 3.	10cen-q26.11	
2192	HSQFE72	826311	2202	93 - 173	4799			L0748: 19, L0770: 10, L0500: 9, L0771: 8, L0509: 8, L0749: 6, L0758: 6, H0318: 4, L0764: 4, L0665: 4, L0438: 4, L0745: 4, L0759: 4, S0002: 3, L0506: 3, L0503: 3, L0766: 3, L0776: 3, L0493: 3, L0666: 3, H0659: 3, L0744: 3, L0752: 3.		

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2193	HSQFE76	853394	2203	31 - 126	4800	Val-23 to Gln-31.	L0581: 3, H0543: 3, H0650: 2, H0657: 2, S0212: 2, S0360: 2, H0581: 2, H0052: 2, H0428: 2, H0031: 2, H0553: 2, H0090: 2, H0591: 2, L0502: 2, L0501: 2, L0800: 2, L0497: 2, L0803: 2, L0657: 2, L0514: 2, L0511: 2, H0539: 2, H0521: 2, S0404: 2, H0555: 2, L0747: 2, L0779: 2, L0599: 2, S0026: 2, H0624: 1, S0470: 1, S0040: 1, S0001: 1, H0483: 1, H0663: 1, S0418: 1, S0420: 1, S0358: 1, S0408: 1, H0619: 1, L0717: 1, S0278: 1, H0261: 1, H0549: 1, H0550: 1, S0222: 1, H0497: 1, H0333: 1, H0331: 1, H0486: 1, H0013: 1, H0069: 1, S0049: 1, H0009: 1, L0471: 1, H0373: 1, S0051: 1, H0239: 1, H0179: 1, S0003: 1, H0328: 1, H0213: 1, S0364: 1, H0068: 1, H0316: 1, H0038: 1, H0040: 1, H0488: 1, T0041: 1, L0475: 1, L0065: 1, S0438: 1, L0598: 1, L0638: 1, L0761: 1, L0772: 1, L0373: 1, L0641: 1, L0649: 1, L0804: 1, L0774: 1, L0375: 1, L0508: 1, L0655: 1, L0515: 1, L0659: 1, L0783: 1, L0384: 1, L0519: 1, L0663: 1, H0648: 1, H0672: 1, S0380: 1, H0696: 1, L0743: 1, L0439: 1, L0780: 1, L0755: 1, H0445: 1, S0434: 1 and L0697: 1. L0439: 11, H0052: 4, L0742: 3, S0222: 2, H0586: 2, S0010: 2, L0157: 2, S0003: 2, S0386: 2, L0438: 2, L0740: 2, S0040: 1, S0400: 1, S0360: 1, S0046: 1, H0600: 1, H0587: 1, H0486:	
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2194	HSQFV12	604964	2204	267 - 359	4801	Glu-16 to Tyr-21.	1, T0040: 1, H0013: 1, L0021: 1, S0665: 1, H0581: 1, H0309: 1, H0569: 1, S0628: 1, S0214: 1, H0615: 1, H0644: 1, H0090: 1, T0067: 1, S0112: 1, L0770: 1, L0761: 1, L0766: 1, L0803: 1, L0776: 1, L0659: 1, L0666: 1, L0743: 1, L0745: 1, L0777: 1, L0753: 1, S0026: 1, S0276: 1 and H0423: 1. L0754: 8, L0731: 4, L0663: 3, H0659: 3, H0670: 3, L0750: 3, L0779: 3, H0662: 2, S0360: 2, S0414: 2, L0763: 2, L0764: 2, L0662: 2, L0766: 2, L0803: 2, L0774: 2, L0528: 2, L0666: 2, S0328: 2, S0330: 2, L0777: 2, L0752: 2, H0423: 2, H0624: 1, H0265: 1, H0556: 1, H0657: 1, S0354: 1, S0358: 1, S0408: 1, H0329: 1, H0411: 1, S0222: 1, L0586: 1, L0105: 1, H0581: 1, H0081: 1, H0057: 1, H0014: 1, S0318: 1, H0428: 1, H0412: 1, H0625: 1, S0438: 1, S0422: 1, L0520: 1, L0769: 1, L0637: 1, L0646: 1, L0767: 1, L0649: 1, L0775: 1, L0651: 1, L0776: 1, L0655: 1, L0559: 1, L0659: 1, L0518: 1, L0532: 1, S0374: 1, L0438: 1, H0547: 1, H0519: 1, H0690: 1, H0648: 1, H0710: 1, L0439: 1, L0747: 1, L0758: 1, L0759: 1, S0434: 1, L0605: 1, L0599: 1, S0026: 1, S0192: 1 and H0352: 1.		
2195	HSRAA81	695759	2205	235 - 366	4802		L0748: 10, H0457: 5, L0758: 4, L0776: 3, L0790: 3, L0665: 3, H0617: 2, L0803: 2, L0655: 2, H0658: 2, L0744: 2, L0747: 1 and H0352: 1.	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858.

2196	HSRAO56	719816	2206	131 - 193	4803			2, L0588: 2, L0604: 2, H0265: 1, H0583: 1, S0116: 1, S0212: 1, S0442: 1, S0132: 1, H0351: 1, H0369: 1, H0441: 1, H0013: 1, S0010: 1, H0327: 1, H0046: 1, H0015: 1, H0051: 1, S0051: 1, H0510: 1, L0055: 1, H0361: 1, S0366: 1, H0135: 1, H0090: 1, H0040: 1, H0063: 1, H0477: 1, H0059: 1, H0102: 1, H0649: 1, H0529: 1, L0769: 1, L0372: 1, L0771: 1, L0766: 1, L0375: 1, L0806: 1, L0805: 1, L0657: 1, L0659: 1, L0789: 1, L0666: 1, L0663: 1, L0438: 1, H0593: 1, H0435: 1, H0648: 1, H0651: 1, S0330: 1, S0380: 1, H0436: 1, L0751: 1, L0756: 1, L0731: 1, L0596: 1, L0589: 1, L0592: 1, S0011: 1, S0026: 1, S0276: 1 and H0423: 1.	150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
2197	HSRAV28	581102	2207	301 - 345	4804	Leu-1 to Gly-7.		S0011: 3, H0306: 1, H0402: 1, L0004: 1, H0486: 1, H0050: 1, S0051: 1, H0494: 1 and S0002: 1. AR089: 18, AR316: 13, AR060: 8 S0136: 6, L0794: 2, H0231: 1, L0520: 1, L0809: 1, H0539: 1 and S0011: 1.	
2198	HSRDM56	601693	2208	134 - 355	4805		2p16.1	L0740: 10, L0766: 9, L0777: 8, L0747: 7, L0803: 6, L0439: 6, L0794: 5, S0126: 5, H0265: 4, L0748: 4, L0749: 4, L0596: 4, H0580: 3, H0591: 3, L0774: 3, L0755: 3, L0757: 3, L0758: 3, H0305: 2, T0039: 2, L0471: 2, S0250: 2, H0622: 2, S0306: 2, L0763: 2, L0662: 2, L0809: 2, H0547: 2, H0521: 2, L0754: 2	126600, 136435

2199	HSRDW57	562019	2209	8 - 361	4806	Ser-29 to Glu-36, Leu-72 to Gly-89, Pro-100 to Trp-113.	AR089: 14, AR316: 13, AR060: 12 L0751: 7, L0758: 5, L0766: 4, H0250: 3, H0556: 2, H0544: 2, L0769: 2, L0747: 2, H0422: 2, H0265: 1, S0114: 1, S0134: 1, S0116: 1, H0663: 1, S0132: 1, H0586: 1, H0069: 1, H0427: 1, H0309: 1, H0150: 1, H0041: 1, H0510: 1, H0594: 1, S0022: 1, H0606: 1, S0036: 1, H0087: 1, T0042: 1, H0494: 1, L0475: 1, S0438: 1, H0641: 1, S0422: 1, L0771: 1, L0662: 1, L0655: 1, L0783: 1, L0792: 1, L0663: 1, H0672: 1, H0539: 1, S0152: 1, H0187: 1, L0750: 1, H0445: 1, S0434: 1, H0542: 1 and S0424: 1.	2, L0756: 2, L0752: 2, L0590: 2, S0192: 2, H0543: 2, H0556: 1, H0686: 1, S0040: 1, S0218: 1, H0656: 1, H0662: 1, S0358: 1, S0360: 1, S0007: 1, S0046: 1, H0261: 1, H0013: 1, H0635: 1, H0581: 1, H0052: 1, H0544: 1, H0546: 1, H0510: 1, H0267: 1, H0284: 1, S0022: 1, H0328: 1, H0615: 1, H0428: 1, H0031: 1, H0090: 1, H0616: 1, H0623: 1, L0564: 1, T0042: 1, H0494: 1, S0144: 1, S0210: 1, L0598: 1, L0369: 1, L0770: 1, L0761: 1, L0764: 1, L0768: 1, L0804: 1, L0775: 1, L0806: 1, L0657: 1, L0513: 1, L0541: 1, L0787: 1, L0788: 1, L0663: 1, L0664: 1, H0144: 1, S3014: 1, L0744: 1, L0750: 1, L0779: 1 and L0731: 1.		
									12	

2200	HSREC72	601368	2210	172 - 276	4807	Arg-26 to Glu-34.	H0625: 1, S0011: 1 and H0352: 1.		
2201	HSREG42	839481	2211	730 - 813	4808	Ala-2 to Arg-16.	L0747: 24, L0591: 17, L0794: 16, L0777: 15, L0588: 10, L0750: 9, L0599: 9, S0046: 8, H0013: 8, T0040: 7, L0748: 7, L0731: 7, H0619: 6, L0665: 6, S0212: 5, H0123: 5, L0471: 5, H0024: 5, S3014: 5, L0754: 5, L0717: 4, H0333: 4, H0124: 4, L0770: 4, L0800: 4, L0375: 4, H0144: 4, L0749: 4, L0757: 4, L0759: 4, H0170: 3, S0360: 3, H0208: 3, H0178: 3, H0050: 3, H0551: 3, H0100: 3, H0494: 3, L0763: 3, L0641: 3, L0768: 3, L0766: 3, L0804: 3, L0659: 3, L0789: 3, S0126: 3, S0037: 3, S0027: 3, S0028: 3, L0740: 3, L0595: 3, S0011: 3, H0624: 2, S0040: 2, H0295: 2, S0045: 2, H0645: 2, H0427: 2, H0599: 2, H0544: 2, H0546: 2, H0012: 2, H0594: 2, S0250: 2, H0428: 2, H0038: 2, L0564: 2, S0210: 2, L0771: 2, L0662: 2, L0767: 2, L0776: 2, L0606: 2, L0783: 2, L0809: 2, H0555: 2, L0741: 2, L0744: 2, L0605: 2, L0592: 2, L0593: 2, H0171: 1, H0716: 1, T0049: 1, H0661: 1, S0420: 1, S6022: 1, H0369: 1, H0550: 1, H0370: 1, H0485: 1, H0486: 1, T0039: 1, L0021: 1, H0097: 1, H0309: 1, H0545: 1, H0009: 1, H0081: 1, H0620: 1, H0023: 1, H0057: 1, H0154: 1, H0014: 1, H0015: 1, H0083: 1, H0266: 1, H0188: 1, H0687: 1, H0288: 1, H0286: 1, H0039: 1,	2pter-p25.1	



Table 1. Demographic characteristics of the study population	
Age (years)	65.0 ± 1.5
Gender (male/female)	10/10
Education (years)	12.0 ± 1.0
Occupation (white/blue)	10/10
Marital status (married/divorced/widowed)	10/10/0
Smoking status (current/former/never)	10/10/0
Alcohol consumption (yes/no)	10/10
Comorbidities (hypertension/diabetes/cholesterol)	10/10/0
Medication (antihypertensive/antidiabetic/anticholesterol)	10/10/0
Physical activity (yes/no)	10/10
Stress level (low/moderate/high)	10/10/0
Sleep quality (good/poor)	10/10
Depression score (0-10)	10/10
Life satisfaction score (0-10)	10/10
Health-related quality of life score (0-10)	10/10
Overall health status (good/poor)	10/10

2202	HSRFD18	840771	2212	67 - 153	4809					H0622: 1, L0483: 1, H0644: 1, H0617: 1, H0673: 1, H0591: 1, H0087: 1, H0268: 1, H0269: 1, H0412: 1, H0056: 1, H0623: 1, S0440: 1, H0652: 1, L0769: 1, L0373: 1, L0764: 1, L0773: 1, L0521: 1, L0363: 1, L0649: 1, L0377: 1, L0388: 1, L0803: 1, L0775: 1, L0523: 1, L0806: 1, L0805: 1, L0653: 1, L0656: 1, L0558: 1, L0647: 1, L0664: 1, L0565: 1, H0547: 1, H0435: 1, H0659: 1, H0670: 1, H0672: 1, S0380: 1, S0152: 1, H0704: 1, S3012: 1, S0206: 1, L0786: 1, L0758: 1, H0595: 1, L0589: 1, L0603: 1, H0665: 1, S0242: 1, S0276: 1 and H0352: 1.	
										L0754: 10, H0486: 5, S0022: 4, L0803: 4, L0748: 4, L0747: 4, L0591: 4, L0766: 3, L0526: 3, L0665: 3, S0212: 2, S0360: 2, S0222: 2, H0596: 2, L0471: 2, H0166: 2, H0509: 2, L0646: 2, L0662: 2, L0805: 2, L0659: 2, L0666: 2, L0664: 2, S0374: 2, L0779: 2, L0777: 2, L0759: 2, H0624: 1, H0170: 1, H0671: 1, H0663: 1, H0402: 1, H0305: 1, H0329: 1, H0581: 1, H0421: 1, H0194: 1, H0263: 1, H0597: 1, H0024: 1, H0355: 1, H0510: 1, H0687: 1, H0615: 1, L0483: 1, H0553: 1, H0644: 1, H0673: 1, H0674: 1, H0100: 1, S0450: 1, L0763: 1, L0649: 1, L0776: 1, L0518: 1, L0791: 1, L0663: 1, H0670: 1, H0555: 1, H0478: 1, L0780: 1, S0276: 1 and H0543: 1.	

2203	HSRGZ11	801929	2213	208 - 252	4810		AR060: 8, AR316: 7, AR089: 6 L0751: 15, L0752: 12, L0758: 9, L0766: 8, L0769: 7, L0750: 7, S0022: 6, L0776: 6, L0753: 4, L0759: 4, H0585: 3, H0620: 3, H0617: 3, L0742: 3, L0754: 3, L0747: 3, L0731: 3, H0556: 2, H0657: 2, S0360: 2, L0763: 2, L0761: 2, L0774: 2, L0540: 2, L0743: 2, L0748: 2, L0780: 2, L0601: 2, H0422: 2, H0265: 1, H0159: 1, S0114: 1, S0116: 1, S0356: 1, S0007: 1, H0550: 1, H0559: 1, L0623: 1, H0545: 1, H0051: 1, S6028: 1, H0179: 1, H0628: 1, H0063: 1, T0041: 1, S0002: 1, L0796: 1, L0772: 1, L0373: 1, L0764: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0775: 1, L0806: 1, L0807: 1, L0512: 1, L0783: 1, L0787: 1, L0666: 1, S0126: 1, H0689: 1, H0659: 1, S0378: 1, S0152: 1, S0406: 1, H0436: 1, H0345: 1, L0749: 1, L0097: 1 and S0424: 1.	20p13	192340, 234200
2204	HSRHB59	840384	2214	308 - 478	4811	Pro-20 to Ala-25, Lys-41 to Ser-55.	AR089: 22, AR316: 21, AR060: 21 S0022: 12, L0747: 10, S0474: 9, L0758: 7, L0769: 6, L0740: 6, L0754: 6, L0755: 6, L0659: 5, S0126: 5, H0521: 5, H0556: 4, S0358: 4, H0599: 4, H0124: 4, L0766: 4, L0439: 4, L0731: 4, L0485: 4, S0360: 3, H0266: 3, H0616: 3, H0087: 3, S0144: 3, S0142: 3, L0662: 3, L0382: 3, L0809: 3, L0543: 3, L0664: 3, S0152: 3, L0779: 3,	11cen-q12.1	

						H0653: 3, H0542: 3, H0657: 2, S0116: 2, H0661: 2, H0402: 2, H0351: 2, H0549: 2, H0486: 2, H0156: 2, H0002: 2, H0575: 2, H0318: 2, H0052: 2, H0200: 2, H0373: 2, S6028: 2, H0553: 2, L0142: 2, H0032: 2, T0041: 2, T0042: 2, S0426: 2, L0772: 2, L0374: 2, L0775: 2, H0682: 2, H0684: 2, H0670: 2, S0328: 2, L0748: 2, L0751: 2, L0749: 2, L0750: 2, L0757: 2, H0352: 2, H0170: 1, H0224: 1, S0040: 1, S6024: 1, S0134: 1, S0218: 1, L0785: 1, H0341: 1, S0212: 1, S0282: 1, H0484: 1, H0255: 1, H0662: 1, H0192: 1, S0418: 1, S0376: 1, H0152: 1, H0645: 1, H0393: 1, L0717: 1, S0278: 1, H0613: 1, H0586: 1, H0587: 1, H0069: 1, H0042: 1, H0036: 1, H0253: 1, H0581: 1, H0327: 1, H0150: 1, H0086: 1, H0041: 1, H0123: 1, H0015: 1, S0051: 1, H0399: 1, H0239: 1, H0687: 1, H0286: 1, H0424: 1, H0181: 1, L0055: 1, H0068: 1, H0163: 1, H0040: 1, H0379: 1, H0488: 1, H0413: 1, H0100: 1, H0494: 1, L0475: 1, H0132: 1, S0344: 1, S0210: 1, S0422: 1, S0002: 1, H0529: 1, L0763: 1, L0371: 1, L0796: 1, L0637: 1, L0643: 1, L0645: 1, L0764: 1, L0771: 1, L0773: 1, L0649: 1, L0774: 1, L0651: 1, L0378: 1, L0806: 1, L0805: 1, L0776: 1, L0783: 1, L0384: 1, L0528: 1, L0647: 1, L0663: 1, L0665: 1, H0547: 1, H0519: 1, S0330: 1, H0539: 1					
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[illegible]

2205	HSSAN03	598717	2215	130 - 249	4812				H0522: 1, H0696: 1, S0044: 1, H0134: 1, H0555: 1, H0436: 1, H0478: 1, S3012: 1, S3014: 1, S0027: 1, S0028: 1, S0032: 1, L0741: 1, L0744: 1, L0759: 1, L0592: 1, H0665: 1, S0276: 1 and S0424: 1. L0599: 5, L0766: 4, H0592: 3, L0803: 3, S0370: 2, L0759: 2, L0590: 2, L0604: 2, H0506: 2, S0116: 1, H0341: 1, S0360: 1, H0411: 1, S0278: 1, H0586: 1, H0486: 1, H0375: 1, H0266: 1, S0214: 1, H0615: 1, H0688: 1, H0428: 1, L0483: 1, H0135: 1, H0641: 1, L0649: 1, L0804: 1, L0774: 1, L0805: 1, L0776: 1, L0663: 1, L0664: 1, L0665: 1, H0682: 1, H0648: 1, S0406: 1, S0434: 1, S0436: 1 and L0362: 1.		
2206	HSSCC66	559402	2216	174 - 284	4813	Pro-24 to Leu-29.			AR271: 6, AR313: 5, AR309: 4, AR198: 4, AR052: 3, AR267: 3, AR183: 3, AR251: 3, AR206: 3, AR184: 3, AR202: 3, AR039: 3, AR253: 3, AR265: 3, AR186: 3, AR291: 3, AR312: 2, AR243: 2, AR060: 2, AR089: 2, AR233: 2, AR055: 2, AR237: 2, AR299: 2, AR061: 2, AR227: 2, AR282: 2, AR266: 2, AR270: 2, AR298: 2, AR277: 2, AR292: 2, AR293: 2, AR234: 2, AR177: 2, AR295: 2, AR316: 2, AR286: 2,		

2207	HSSDI13	580877	2217	107 - 217	4814			AR185: 2, AR247: 2, AR232: 2, AR285: 2, AR268: 2, AR182: 2, AR033: 2, AR096: 2, AR290: 1, AR238: 1, AR283: 1, AR231: 1, AR205: 1, AR284: 1, AR244: 1, AR269: 1, AR213: 1, AR240: 1, AR289: 1, AR229: 1, AR256: 1, AR280: 1, AR300: 1, AR314: 1, AR194: 1 H0135: 1		
2208	HSSDQ20	824813	2218	261 - 539	4815			H0135: 1 S0010: 1, H0135: 1, L0766: 1, L0745: 1, L0779: 1 and L0758: 1.	7q21-q22	116860, 126650, 126650, 129900, 133170, 154276, 173360, 173360, 602136, 602136, 602136, 602447
2209	HSSDX38	824825	2219	244 - 312	4816			H0135: 1		
2210	HSSD57	637675	2220	191 - 403	4817		Ala-36 to His-43.	L0809: 6, L0794: 4, L0803: 4, L0665: 4, L0662: 3, H0556: 2, H0662: 2, S0358: 2, L0651: 2, L0805: 2, L0659: 2, L0517: 2, L0742: 2, L0777: 2, H0265: 1, H0657: 1, L0394: 1, H0642: 1, H0486: 1, L0021: 1, H0544: 1, H0266: 1, H0288: 1, H0628: 1, S0036: 1, H0135: 1, H0040: 1, H0494: 1, H0560: 1, S0440: 1, L0769: 1, L0796: 1, L0764: 1, L0804: 1, L0775: 1, L0607: 1, L0636: 1, L0783: 1, L0666: 1, L0663: 1, H0520: 1, H0689: 1, L0748: 1, L0751: 1, L0754: 1, L0747: 1, L0779: 1, L0752: 1, L0755: 1, L0758: 1 and L0759: 1.	20	

2211	HSEL28	838618	2221	166 - 249	4818	Ser-17 to Cys-22.	AR313: 18, AR219: 15, AR218: 14, AR096: 12, AR248: 12, AR089: 12, AR299: 11, AR293: 11, AR258: 11, AR253: 11, AR183: 10, AR052: 10, AR292: 10, AR175: 9, AR249: 9, AR247: 9, AR060: 9, AR033: 9, AR186: 8, AR316: 8, AR177: 8, AR269: 8, AR055: 8, AR295: 7, AR270: 7, AR312: 7, AR294: 7, AR240: 7, AR244: 7, AR259: 7, AR300: 6, AR310: 6, AR267: 6, AR213: 6, AR282: 6, AR185: 6, AR268: 6, AR053: 6, AR314: 6, AR265: 6, AR315: 6, AR275: 5, AR280: 5, AR233: 5, AR263: 5, AR256: 5, AR273: 5, AR184: 5, AR290: 4, AR266: 4, AR182: 4, AR277: 4, AR179: 4, AR205: 4, AR246: 4, AR061: 4, AR296: 3, AR104: 3, AR283: 3, AR238: 3, AR309: 3, AR271: 3, AR291: 3, AR192: 3, AR039: 3, AR229: 3, AR234: 3, AR204: 3, AR198: 3, AR231: 3, AR226: 3, AR237: 3, AR298: 2, AR284: 2, AR274: 2, AR286: 2, AR289: 2, AR285: 2, AR227: 2, AR241: 2,		
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2212	HSSFP88	658726	2222	141 - 1193	4819	<p>His-199 to Tyr-227, Glu-236 to Asp-241, Trp-260 to Thr-267, Pro-274 to Thr-308, Pro-334 to Ser-341.</p>	<p>AR202: 2, AR281: 1, AR232: 1 L0438: 6, L0749: 5, H0271: 4, L0770: 4, H0644: 3, H0135: 3, H0641: 3, S0002: 3, L0805: 3, L0789: 3, H0521: 3, L0748: 3, L0439: 3, L0754: 3, L0777: 3, L0758: 3, H0295: 2, H0638: 2, H0052: 2, H0416: 2, H0628: 2, L0769: 2, L0794: 2, L0803: 2, H0519: 2, L0740: 2, L0751: 2, L0750: 2, L0759: 2, L0604: 2, L0603: 2, H0624: 1, S0040: 1, S0134: 1, S0116: 1, H0664: 1, H0402: 1, S0354: 1, S0376: 1, S0444: 1, S0476: 1, S0300: 1, S0278: 1, H0369: 1, S0222: 1, H0610: 1, H0370: 1, H0357: 1, H0586: 1, T0040: 1, H0069: 1, H0635: 1, H0599: 1, H0706: 1, T0071: 1, H0309: 1, H0597: 1, H0009: 1, H0024: 1, H0373: 1, L0163: 1, H0375: 1, H0179: 1, S0250: 1, T0006: 1, S0364: 1, H0100: 1, H0561: 1, H0646: 1, L0771: 1, L0648: 1, L0766: 1, L0806: 1, L0653: 1, L0659: 1, L0518: 1, L0809: 1, S0053: 1, S0216: 1, H0144: 1, S0374: 1, H0547: 1, H0689: 1, H0682: 1, H0672: 1, S0037: 1, L0747: 1, L0752: 1, L0757: 1, L0592: 1, L0581: 1, L0601: 1, H0665: 1, H0543: 1 and S0424: 1.</p>	17	
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2213	HSSGS62	741162	2223	249 - 416	4820	Glu-18 to Ser-27, Tyr-46 to Lys-55.	H0428: 1 and H0135: 1.						
2214	HSSJA23	847089	2224	261 - 344	4821		L0794: 5, L0766: 2, H0624: 1, H0171: 1, S0007: 1, H0370: 1, T0010: 1, H0135: 1, L0790: 1 and H0214: 1.						
2215	HSSJF26	567431	2225	177 - 392	4822	Gln-40 to Ser-52.	H0135: 1						
2216	HSSJF96	853396	2226	14 - 187	4823	Ser-19 to Gln-24, Asp-50 to Pro-57.	H0135: 1 and L0592: 1.						
2217	HSSJM47	796096	2227	151 - 159	4824		H0009: 6, H0052: 5, H0265: 4, L0534: 4, L0779: 4, H0341: 3, H0402: 3, H0619: 3, H0618: 3, H0135: 3, L0748: 3, H0543: 3, H0556: 2, H0662: 2, S0354: 2, S0360: 2, S0046: 2, H0069: 2, H0599: 2, S0142: 2, H0529: 2, H0624: 1, S0114: 1, S0134: 1, H0650: 1, H0255: 1, H0306: 1, H0449: 1, L0539: 1, S0045: 1, H0261: 1, S0222: 1, H0370: 1, H0438: 1, H0586: 1, H0587: 1, H0333: 1, H0492: 1, H0253: 1, H0318: 1, H0581: 1, H0309: 1, H0530: 1, H0457: 1, H0566: 1, H0050: 1, H0373: 1, S0388: 1	7q11.23-q21.1	116860, 129900, 154276, 171050, 171060, 233700, 600079, 602136, 602136, 602447				

2218	HSSJW30	779822	2228	713 - 787	4825	<p>1, H0039: 1, H0031: 1, H0124: 1, H0087: 1, S0150: 1, S0344: 1, S0426: 1, L0763: 1, L0769: 1, L0772: 1, L0771: 1, L0804: 1, L0774: 1, L0775: 1, L0666: 1, H0435: 1, H0539: 1, H0521: 1, H0696: 1, H0436: 1, S0114: 1, L0751: 1, L0747: 1, L0749: 1, L0731: 1, L0758: 1, L0759: 1, S0031: 1, L0599: 1, L0601: 1, H0542: 1, H0423: 1, L0462: 1 and H0352: 1.</p>		
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2219	HSSJW30	850566	2229	928 - 1002	4826				1, H0684: 1, H0670: 1, S0152: 1, H0696: 1, S0406: 1, H0576: 1, S0027: 1, L0740: 1, L0747: 1, L0779: 1, L0757: 1, S0436: 1, H0543: 1 and S0460: 1. AR060: 2, AR316: 1, AR089: 1 H0617: 7, L0751: 6, S0360: 5, H0218: 4, H0052: 4, L0769: 4, L0499: 4, L0438: 4, S0404: 4, L0731: 4, S0358: 3, L0803: 3, L0809: 3, H0144: 3, H0657: 2, H0341: 2, H0255: 2, H0013: 2, H0253: 2, L0637: 2, L0794: 2, L0766: 2, L0774: 2, L0783: 2, H0593: 2, S0126: 2, H0555: 2, L0439: 2, L0758: 2, H0556: 1, H0686: 1, H0685: 1, H0254: 1, H0663: 1, H0662: 1, H0458: 1, S0418: 1, H0675: 1, S0222: 1, H0574: 1, H0635: 1, H0599: 1, H0618: 1, H0581: 1, H0327: 1, H0544: 1, H0545: 1, H0023: 1, H0290: 1, H0039: 1, H0135: 1, H0634: 1, L0351: 1, T0042: 1, H0494: 1, H0625: 1, H0561: 1, H0130: 1, S0002: 1, L0763: 1, L0643: 1, L0768: 1, L0804: 1, L0375: 1, L0806: 1, L0805: 1, L0509: 1, L0653: 1, L0657: 1, L0659: 1, L0542: 1, L0526: 1, L0384: 1, L0793: 1, H0547: 1, H0519: 1, H0689: 1, H0682: 1, H0684: 1, H0670: 1, S0152: 1, H0696: 1, S0406: 1, H0576: 1, S0027: 1, L0740: 1, L0747: 1, L0779: 1, L0757: 1, S0436: 1, H0543: 1 and S0460: 1. AR060: 2, AR316: 1, AR089: 1	1		
2220	HSSJW30	867721	2230	1067 - 1141	4827				AR060: 2, AR316: 1, AR089: 1	1		

2221	HSSMY35	740765	2231	42 - 206	4828	Asn-47 to Arg-54.	<p>H0617: 7, L0751: 6, S0360: 5, H0218: 4, H0052: 4, L0769: 4, L0499: 4, L0438: 4, S0404: 4, L0731: 4, S0358: 3, L0803: 3, L0809: 3, H0144: 3, H0657: 2, H0341: 2, H0255: 2, H0013: 2, H0253: 2, L0637: 2, L0794: 2, L0766: 2, L0774: 2, L0783: 2, H0593: 2, S0126: 2, H0555: 2, L0439: 2, L0758: 2, H0556: 1, H0686: 1, H0685: 1, H0254: 1, H0663: 1, H0662: 1, H0458: 1, S0418: 1, H0675: 1, S0222: 1, H0574: 1, H0635: 1, H0599: 1, H0618: 1, H0581: 1, H0327: 1, H0544: 1, H0545: 1, H0023: 1, H0290: 1, H0039: 1, H0135: 1, H0634: 1, L0351: 1, T0042: 1, H0494: 1, H0625: 1, H0561: 1, H0130: 1, S0002: 1, L0763: 1, L0643: 1, L0768: 1, L0804: 1, L0375: 1, L0806: 1, L0805: 1, L0509: 1, L0653: 1, L0657: 1, L0659: 1, L0542: 1, L0526: 1, L0384: 1, L0793: 1, H0547: 1, H0519: 1, H0689: 1, H0682: 1, H0684: 1, H0670: 1, S0152: 1, H0696: 1, S0406: 1, H0576: 1, S0027: 1, L0740: 1, L0747: 1, L0779: 1, L0757: 1, S0436: 1, H0543: 1 and S0460: 1.</p>	Xq28	<p>300031, 300044, 300048, 300049, 300049, 300055, 300100, 300100, 300104, 300126, 301201, 301590, 302060, 302060, 302060, 302060, 302960, 303700,</p>
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2222	HSTAL93	841863	2232	127 - 168	4829	<p>2, S0358: 2, H0549: 2, H0486: 2, H0253: 2, T0006: 2, H0181: 2, L0369: 2, L0761: 2, L0646: 2, L0764: 2, L0653: 2, L0783: 2, L0663: 2, L0664: 2, H0144: 2, S0146: 2, H0555: 2, L0748: 2, L0745: 2, L0779: 2, L0757: 2, L0758: 2, L0759: 2, S0031: 2, L0605: 2, L0592: 2, H0170: 1, H0556: 1, H0224: 1, H0713: 1, H0650: 1, H0341: 1, H0661: 1, H0306: 1, H0459: 1, S0354: 1, S0376: 1, S0360: 1, H0675: 1, S0408: 1, H0580: 1, H0619: 1, H0550: 1, H0592: 1, H0642: 1, H0250: 1, H0069: 1, H0427: 1, H0156: 1, H0122: 1, H0590: 1, T0071: 1, H0309: 1, H0024: 1, H0057: 1, S0051: 1, T0010: 1, H0271: 1, H0188: 1, H0288: 1, L0483: 1, H0553: 1, H0166: 1, H0673: 1, H0316: 1, H0087: 1, H0102: 1, H0560: 1, H0646: 1, S0002: 1, S0426: 1, L0638: 1, L0768: 1, L0649: 1, L0389: 1, L0499: 1, L0650: 1, L0774: 1, L0375: 1, L0806: 1, L0652: 1, L0776: 1, L0809: 1, H0520: 1, H0547: 1, H0593: 1, H0689: 1, H0690: 1, H0435: 1, H0660: 1, H0539: 1, H0436: 1, H0478: 1, H0627: 1, L0609: 1, S0028: 1, L0743: 1, L0754: 1, L0777: 1, L0753: 1, L0587: 1, L0361: 1, T0047: 1, H0422: 1, H0506: 1 and H0352: 1.</p>	<p>303800, 303900, 304800, 305900, 305900, 305900, 306700, 306995, 308310, 308840, 308840, 308840, 309200, 309548, 309620, 309900, 310300, 310400, 310460, 310460, 311300, 311510, 314300, 314400</p>
2222	HSTAL93	841863	2232	127 - 168	4829	<p>AR229: 584, AR256: 485, AR184: 481, AR294: 421, AR186: 399, AR231: 386, AR259: 380, AR233: 362,</p>	

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2223	HSTBG23	647150	2233	96 - 191	4830				H0068: 1 and L0769: 1. H0068: 1		
2224	HSUAF06	863206	2234	109 - 378	4831	Ala-17 to Cys-25, Arg-34 to Leu-40, Ser-57 to Gly-63.			AR267: 7, AR266: 3, AR205: 2, AR265: 2, AR244: 2, AR096: 2, AR202: 2, AR185: 2, AR273: 1, AR039: 1, AR186: 1, AR241: 1, AR312: 1, AR061: 1 H0083: 1 and H0136: 1.		
2225	HSUBX67	751266	2235	295 - 330	4832				H0265: 1, H0556: 1, L0369: 1, L0665: 1, L0747: 1 and H0136: 1.		
2226	HSUSB73	603912	2236	158 - 433	4833	Cys-80 to Thr-86.			L0515: 3, H0637: 1, H0644: 1, L0514: 1 and H0216: 1.		
2227	HSVAC05	836051	2237	60 - 173	4834	Ser-29 to Asp-35.			AR089: 8, AR316: 7, AR060: 7		
2228	HSVAE42	655368	2238	295 - 417	4835	Asp-15 to Lys-21.			L0439: 6, H0587: 1, H0309: 1, S0112: 1, L0770: 1, L0761: 1, L0766: 1, L0803: 1, L0776: 1, L0659: 1, L0666: 1, L0438: 1, L0740: 1, L0777: 1, L0753: 1 and S0026: 1.		
2229	HSVAL83	809113	2239	308 - 418	4836				H0309: 1		
2230	HSVAT36	604965	2240	162 - 170	4837				H0402: 1 and H0309: 1.		
2231	HSVAV02	604966	2241	309 - 404	4838	Ala-7 to Ser-16.			H0309: 1		
2232	HSVBA83	812059	2242	139 - 186	4839				AR060: 8, AR316: 8, AR089: 7 L0749: 4, L0774: 2, L0666: 2, L0748: 2, L0750: 2, L0604: 2, H0156: 1, H0309: 1, L0471: 1, H0100: 1, L0369: 1, L0772: 1, L0764: 1, L0363: 1, L0768: 1, L0659: 1, L0518: 1, L0663: 1, L0439: 1, L0753: 1, L0758: 1 and L0759: 1.	4	
2233	HSVBD37	637110	2243	146 - 166	4840				AR089: 43, AR316: 35, AR060: 28	1p22-p21	102770, 120280, 120280, 166600,



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2234	HSVBN46	603034	2244	120 - 254	4841			L0806: 1, L0527: 1, L0636: 1, L0783: 1, L0790: 1, S0296: 1, H0693: 1, H0519: 1, H0690: 1, H0682: 1, H0684: 1, H0648: 1, H0672: 1, S0454: 1, S0013: 1, H0626: 1, H0627: 1, S0028: 1, L0744: 1, L0777: 1, L0755: 1, L0757: 1, L0758: 1, L0759: 1, S0434: 1, S0436: 1, L0592: 1, H0667: 1, S0194: 1 and H0506: 1.		
2235	HSVBY62	637113	2245	188 - 274	4842			H0309: 1 AR089: 33, AR316: 27, AR060: 22 L0748: 7, L0747: 6, L0769: 5, L0731: 4, S0444: 3, H0083: 3, H0412: 3, L0775: 3, H0670: 3, S0380: 3, L0779: 3, L0758: 3, H0352: 3, H0170: 2, S0007: 2, T0048: 2, H0309: 2, H0081: 2, H0413: 2, H0059: 2, H0641: 2, L0774: 2, L0655: 2, L0526: 2, H0144: 2, H0659: 2, H0710: 2, H0696: 2, S0027: 2, L0757: 2, L0615: 1, S0040: 1, H0295: 1, H0656: 1, S0116: 1, H0341: 1, H0484: 1, H0661: 1, H0664: 1, S0360: 1, S0408: 1, H0637: 1, H0393: 1, H0411: 1, H0392: 1, H0486: 1, H0318: 1, L0738: 1, H0545: 1, L0471: 1, H0014: 1, T0023: 1, H0181: 1, H0606: 1, H0673: 1, S0366: 1, H0316: 1, H0163: 1, H0087: 1, H0625: 1, S0438: 1, H0633: 1, S0210: 1, L0598: 1, H0517: 1, L0520: 1, L0371: 1, L0772: 1, L0764: 1, L0521: 1, L0549: 1, L0803: 1, L0776: 1, L0540: 1, L0783: 1, L0809: 1, L0529: 1, L0663:	11q12-q13.1	106100, 133780, 147050, 259700, 259770, 600045, 601650, 601884

2236	HSVBZ53	830117	2246	461 - 538	4843			1, L0665: 1, S0374: 1, H0593: 1, S0126: 1, H0711: 1, H0658: 1, H0660: 1, H0648: 1, H0672: 1, S0378: 1, S0404: 1, S0406: 1, S0432: 1, S014: 1, L0740: 1, L0752: 1, L0590: 1, L0599: 1, H0668: 1, S0026: 1, H0423: 1, H0422: 1, S0424: 1 and H0712: 1.	15q15-q21	105600, 109700, 114240, 151670, 160777, 177070, 177070, 182500, 218000, 227220, 243500, 600839, 601780, 601800, 602099
2237	HSVCF53	846129	2247	259 - 330	4844			AR089: 12, AR316: 12, AR060: 11 L0747: 11, L0764: 4, L0748: 4, L0776: 3, L0750: 3, S0376: 2, H0486: 2, H0123: 2, H0328: 2, L0769: 2, L0662: 2, L0809: 2, H0658: 2, H0539: 2, L0756: 2, L0779: 2, L0758: 2, H0170: 1, S6024: 1, H0208: 1, H0333: 1, H0309: 1, L0157: 1, H0024: 1, L0766: 1, L0803: 1, L0774: 1, L0775: 1, L0655: 1, L0634: 1, L0540: 1, H0547: 1, H0670: 1, H0648: 1, L0740: 1, L0752: 1, L0755: 1 and L0591: 1.		
2238	HSWAZ17	637682	2248	257 - 313	4845			L0775: 3, L0766: 2, S0222: 1, H0309: 1, H0428: 1, H0413: 1, L0805: 1 and L0607: 1. L0794: 3, L0662: 2, L0605: 2, H0685: 1, H0550: 1, H0333: 1, S0280: 1, H0575: 1, H0546: 1, H0646: 1, L0763: 1, L0804: 1, L0657: 1, L0809: 1, L0663: 1, L0665: 1, H0689: 1, H0670: 1, L0439: 1 and L0740: 1.	2p12-pl1.2	147200, 178640, 216900
2239	HSWB116	840965	2249	817 - 882	4846			AR089: 18, AR316: 11, AR060: 5 L0754: 6, L0438: 4, S0007: 3, L0439: 3, S0045: 2, H0013: 2, H0032: 2, H0519: 2, L0748: 2, L0777: 2, H0624: 1, S0046: 1		

2240	HSXA144	590743	2250	132 - 212	4847		1, S0010: 1, S0346: 1, H0546: 1, H0545: 1, H0266: 1, H0644: 1, H0551: 1, S0150: 1, L0768: 1, L0659: 1, L0540: 1, H0144: 1, L0749: 1, L0780: 1, L0755: 1 and L0757: 1.		
2241	HSXAJ07	570825	2251	217 - 234	4848		S0036: 1		
2242	HSXAS59	838072	2252	244 - 522	4849		S0036: 1		
							AR089: 2, AR316: 2, AR060: 2		
							L0748: 8, L0749: 2, H0009: 1, S0036: 1 and L0519: 1.		
2243	HSXAX20	562783	2253	347 - 376	4850		AR060: 5, AR316: 4, AR089: 3	Xp21.1-q25	301220, 302350, 306400, 309470, 309585, 311250, 312040, 312610, 314850
							H0622: 2, S0036: 2, L0770: 2, L0804: 2, H0170: 1, S0294: 1, L0803: 1, L0775: 1, L0438: 1, L0439: 1 and L0594: 1.		
2244	HSXAY60	737753	2254	345 - 647	4851		AR089: 18, AR316: 14, AR060: 11		
							L0777: 7, L0747: 6, L0769: 4, L0766: 3, L0776: 3, L0748: 2, L0759: 2, L0589: 2, H0657: 1, H0411: 1, H0581: 1, H0251: 1, T0010: 1, S0036: 1, L0774: 1, L0775: 1, L0375: 1, L0655: 1, L0657: 1, L0665: 1, H0520: 1, H0436: 1, L0731: 1, H0445: 1 and L0591: 1.		
2245	HSXBB78	600373	2255	156 - 206	4852		AR263: 6, AR265: 4, AR184: 3, AR266: 2, AR282: 2, AR292: 2, AR175: 2, AR267: 2, AR192: 1, AR269: 1, AR312: 1, AR198: 1, AR234: 1, AR182: 1, AR284: 1, AR277: 1		
							S0036: 1		
2246	HSXCA83	830046	2256	1796 - 1846	4853		AR089: 10, AR316: 8,		

2247	HSXCX20	658728	2257	95 - 205	4854	Gln-1 to Thr-9.	AR060: 6 L0766: 7, L0439: 6, L0803: 4, L0740: 4, L0794: 3, L0665: 3, L0764: 2, L0518: 2, L0809: 2, L0747: 2, L0756: 2, L0777: 2, L0759: 2, H0445: 2, H0171: 1, S0360: 1, H0580: 1, H0351: 1, H0586: 1, H0497: 1, H0574: 1, L0021: 1, S0010: 1, H0596: 1, S0036: 1, L0662: 1, L0768: 1, L0775: 1, L0806: 1, L0655: 1, L0659: 1, H0702: 1, S0374: 1, H0435: 1, H0648: 1, H0521: 1, L0754: 1, L0752: 1, L0758: 1, L0362: 1 and L0465: 1.	3q24-3q25.1	106165, 117700, 117700, 169600, 180380, 180380, 180380, 222900, 276902, 601199, 601199, 601199, 601402, 601682
2248	HSXFG21	805972	2258	989 - 994	4855		L0770: 4, L0439: 4, L0777: 4, H0327: 3, H0050: 2, H0051: 2, T0010: 2, S0036: 2, L0769: 2, L0803: 2, L0809: 2, L0438: 2, L0742: 2, L0748: 2, L0747: 2, L0756: 2, L0779: 2, S0354: 1, H0645: 1, S6022: 1, H0549: 1, H0441: 1, H0036: 1, S0010: 1, H0150: 1, H0041: 1, S0250: 1, H0428: 1, H0551: 1, H0264: 1, S0038: 1, L0638: 1, L0641: 1, L0774: 1, L0378: 1, L0515:	6	

2249	HSXFH82	699863	2259	182 - 286	4856			1, L0783: 1, L0666: 1, S0126: 1, H0648: 1, S0328: 1, H0555: 1, L0741: 1, L0758: 1, S0031: 1 and L0366: 1.			
								AR089: 7, AR316: 7, AR060: 6 L0742: 8, L0439: 6, L0769: 5, L0761: 4, H0483: 3, S0360: 3, H0620: 3, H0617: 3, L0806: 3, L0782: 3, L0741: 3, H0484: 2, H0255: 2, S0222: 2, H0370: 2, H0544: 2, H0039: 2, H0181: 2, H0488: 2, L0764: 2, L0768: 2, L0378: 2, L0659: 2, H0555: 2, L0751: 2, L0779: 2, L0777: 2, L0731: 2, L0588: 2, L0601: 2, H0543: 2, H0685: 1, H0295: 1, H0294: 1, H0664: 1, H0638: 1, S0442: 1, S0408: 1, S0045: 1, H0619: 1, H0645: 1, S0626: 1, H0438: 1, H0592: 1, H0587: 1, H0333: 1, H0599: 1, H0196: 1, H0309: 1, H0085: 1, H0546: 1, H0545: 1, H0150: 1, H0081: 1, H0050: 1, H0012: 1, H0051: 1, S0051: 1, T0010: 1, H0428: 1, H0031: 1, H0553: 1, S0036: 1, H0063: 1, H0264: 1, L0370: 1, S0150: 1, H0649: 1, L0637: 1, L0773: 1, L0364: 1, L0794: 1, L0649: 1, L0376: 1, L0629: 1, L0636: 1, L0783: 1, L0789: 1, L0790: 1, S0053: 1, H0698: 1, S0310: 1, H0519: 1, H0658: 1, H0521: 1, H0522: 1, L0749: 1, L0780: 1, L0758: 1, L0759: 1, S0031: 1, S0434: 1, S0194: 1, H0423: 1 and H0352: 1.	14		
2250	HSYBD33	612867	2260	329 - 487	4857	Pro-22 to Ser-27, Pro-30 to Trp-39,		AR310: 6, AR282: 4, AR182: 2, AR289: 2,			

2251	HSYBR79	873848	2261	425 - 598	4858	Pro-46 to Arg-52.	AR198: 2, AR266: 2, AR243: 2, AR183: 2, AR312: 1, AR238: 1, AR270: 1 H0551: 1 and L0779: 1. L0759: 10, L0748: 6, L0766: 5, L0777: 5, L0783: 4, L0439: 4, H0556: 3, L0747: 3, L0749: 3, L0752: 3, L0731: 3, H0657: 2, S0360: 2, H0031: 2, H0551: 2, H0056: 2, L0438: 2, L0756: 2, L0596: 2, L0591: 2, L0595: 2, L0362: 2, L0603: 2, H0543: 2, S0040: 1, S0420: 1, S0376: 1, H0619: 1, H0370: 1, H0331: 1, L0021: 1, H0599: 1, S0346: 1, H0046: 1, H0012: 1, S0051: 1, H0375: 1, H0188: 1, T0006: 1, L0455: 1, H0477: 1, H0623: 1, L0351: 1, S0440: 1, L0451: 1, L0769: 1, L0639: 1, L0761: 1, L0773: 1, L0768: 1, L0774: 1, L0806: 1, L0653: 1, L0776: 1, L0659: 1, L0665: 1, H0144: 1, S0374: 1, H0547: 1, H0672: 1, H0539: 1, S0027: 1, L0744: 1, L0750: 1, L0779: 1, L0758: 1, S0260: 1, H0422: 1 and H0506: 1.	20q13	600281, 600281
2252	HSYBV44	753253	2262	84 - 227	4859		AR060:1277, AR316:1234, AR089:1198 H0551: 1		
2253	HSYBZ94	799543	2263	52 - 291	4860	Arg-4 to Met-10, Gly-21 to Met-33, Leu-54 to Ser-62, Lys-67 to Arg-79.	AR089: 14, AR316: 12, AR060: 11 H0052: 3, H0457: 3, H0521: 2, S0420: 1, S0354: 1, H0551: 1, H0059: 1, H0593: 1, L0439: 1 and H0423: 1.	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181.

2254	HT3AB13	841680	2264	2055 - 2246	4861	Ser-44 to Glu-50, Pro-53 to Gly-60.	AR089: 18, AR316: 16, AR060: 13 H0486: 4, L0774: 4, L0754: 4, L0755: 4, L0756: 3, L0752: 3, H0595: 3, H0170: 2, H0140: 2, S0360: 2, L0717: 2, H0333: 2, S0414: 2, L0529: 2, L0750: 2, L0731: 2, H0346: 1, H0662: 1, H0638: 1, L0005: 1, H0586: 1, H0587: 1, H0574: 1, H0632: 1, T0039: 1, H0013: 1, H0575: 1, H0047: 1, H0057: 1, S6028: 1, H0039: 1, H0090: 1, H0087: 1, H0488: 1, H0633: 1, S0142: 1, L0598: 1, L0769: 1, L0363: 1, L0803: 1, L0655: 1, L0809: 1, H0144: 1, H0658: 1, H0672: 1, S0328: 1, S0330: 1, H0539: 1, H0521: 1, H0478: 1, L0743: 1, L0740: 1, L0777: 1, S0031: 1, H0445: 1, L0599: 1, L0366: 1, S0026: 1 and H0542: 1.			193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884
2255	HT4SB02	837688	2265	21 - 524	4862	Pro-8 to Pro-13, Ser-35 to Lys-41, Ser-60 to Pro-67, Lys-119 to Asn-132.	AR164: 29, AR165: 28, AR166: 26, AR163: 17, AR161: 17, AR162: 17, AR311: 14, AR250: 12, AR264: 9, AR309: 9, AR252: 9, AR308: 8, AR254: 8, AR312: 8, AR089: 7, AR263: 7, AR253: 7, AR221: 7, AR197: 7, AR248: 7, AR193: 7, AR282: 6, AR272: 6, AR195: 6, AR243: 6, AR310: 6,	14q24.3	104311, 109150, 182600, 245200, 601208	



									AR245: 6, AR246: 6, AR249: 6, AR313: 5, AR277: 5, AR201: 5, AR213: 5, AR052: 5, AR192: 5, AR053: 5, AR265: 5, AR212: 4, AR275: 4, AR316: 4, AR039: 4, AR185: 4, AR271: 4, AR060: 4, AR283: 3, AR096: 3, AR198: 3, AR206: 3, AR184: 3, AR274: 3, AR104: 3, AR205: 3, AR240: 3, AR186: 3, AR242: 3, AR298: 3, AR299: 3, AR247: 3, AR300: 2, AR223: 2, AR180: 2, AR207: 2, AR217: 2, AR061: 2, AR204: 2, AR033: 2, AR273: 2, AR055: 2, AR182: 2, AR270: 2, AR292: 2, AR175: 2, AR261: 2, AR214: 2, AR293: 2, AR259: 2, AR168: 2, AR269: 2, AR226: 2, AR183: 1, AR295: 1, AR230: 1, AR268: 1, AR296: 1, AR172: 1, AR238: 1, AR289: 1, AR291: 1, AR287: 1, AR290: 1, AR286: 1, AR232: 1, AR219: 1, AR267: 1, AR170: 1, AR181: 1 H0224: 2					
2256	HT4SB37	600404	2266	299 - 406	4863				L0770: 3, H0224: 2, H0196: 1, H0488: 1, S0422: 1, L0521: 1, L0783: 1, L0792: 1, H0659: 1, L0740: 1, L0777: 1 and					

2257	HT4SB81	756723	2267	1168 - 1275	4864	Gln-21 to Trp-30.	L0591: 1. L0747: 6, H0556: 5, L0748: 5, L0779: 5, H0224: 4, H0457: 4, H0617: 4, L0749: 4, S0356: 3, H0264: 3, H0521: 3, S0114: 2, H0255: 2, S0354: 2, H0580: 2, S0222: 2, H0232: 2, H0123: 2, L0771: 2, L0659: 2, L0526: 2, L0743: 2, L0751: 2, L0752: 2, H0136: 2, H0543: 2, H0265: 1, H0341: 1, H0663: 1, S0358: 1, H0637: 1, H0645: 1, H0550: 1, H0486: 1, H0581: 1, H0231: 1, H0046: 1, H0050: 1, H0252: 1, H0553: 1, H0616: 1, H0087: 1, H0551: 1, T0041: 1, H0494: 1, H0641: 1, S0426: 1, H0695: 1, L0761: 1, L0800: 1, L0766: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0629: 1, L0657: 1, L0809: 1, L0664: 1, L0665: 1, S0053: 1, L0744: 1, L0777: 1, L0780: 1, L0731: 1, L0581: 1, H0423: 1 and H0506: 1.	2q13	129490, 167415, 176860, 176860, 256100
2258	HT4SB81	844512	2268	1171 - 1278	4865	Gln-21 to Trp-30.	L0747: 6, H0556: 5, L0748: 5, L0779: 5, H0224: 4, H0457: 4, H0617: 4, L0749: 4, S0356: 3, H0264: 3, H0521: 3, S0114: 2, H0255: 2, S0354: 2, H0580: 2, S0222: 2, H0232: 2, H0123: 2, L0771: 2, L0659: 2, L0526: 2, L0743: 2, L0751: 2, L0752: 2, H0136: 2, H0543: 2, H0265: 1, H0341: 1, H0663: 1, S0358: 1, H0637: 1, H0645: 1, H0550: 1, H0486: 1, H0581: 1, H0231: 1, H0046: 1, H0050: 1, H0252: 1, H0553: 1, H0616: 1, H0087: 1, H0551: 1, T0041: 1, H0494: 1, H0641: 1, S0426: 1, H0695: 1, L0761: 1, L0800: 1, L0766: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0629: 1, L0657: 1, L0809: 1, L0664: 1, L0665: 1, S0053: 1, L0744: 1, L0777: 1, L0780: 1, L0731: 1, L0581: 1, H0423: 1 and H0506: 1.		

2259	HT4SB81	858154	2269	1171 - 1278	4866	Gln-21 to Trp-30.	1, H0641: 1, S0426: 1, H0695: 1, L0761: 1, L0800: 1, L0766: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0629: 1, L0657: 1, L0809: 1, L0664: 1, L0665: 1, S0053: 1, L0744: 1, L0777: 1, L0780: 1, L0731: 1, L0581: 1, H0423: 1 and H0506: 1. L0747: 6, H0556: 5, L0748: 5, L0779: 5, H0224: 4, H0457: 4, H0617: 4, L0749: 4, S0356: 3, H0264: 3, H0521: 3, S0114: 2, H0255: 2, S0354: 2, H0580: 2, S0222: 2, H0232: 2, H0123: 2, L0771: 2, L0659: 2, L0526: 2, L0743: 2, L0751: 2, L0752: 2, H0136: 2, H0543: 2, H0265: 1, H0341: 1, H0663: 1, S0358: 1, H0637: 1, H0645: 1, H0550: 1, H0486: 1, H0581: 1, H0231: 1, H0046: 1, H0050: 1, H0252: 1, H0553: 1, H0616: 1, H0087: 1, H0551: 1, T0041: 1, H0494: 1, H0641: 1, S0426: 1, H0695: 1, L0761: 1, L0800: 1, L0766: 1, L0774: 1, L0775: 1, L0806: 1, L0805: 1, L0776: 1, L0655: 1, L0629: 1, L0657: 1, L0809: 1, L0664: 1, L0665: 1, S0053: 1, L0744: 1, L0777: 1, L0780: 1, L0731: 1, L0581: 1, H0423: 1 and H0506: 1.		
2260	HT5FX76	637118	2270	98 - 256	4867		AR052: 11, AR055: 9, AR194: 9, AR186: 9, AR089: 9, AR243: 8, AR033: 8, AR314: 8, AR312: 8, AR246: 8, AR060: 8, AR273: 8, AR202: 8, AR213: 8,		

[illegible]

[illegible]

2261	HTABF81	610040	2271	255 - 302	4868			1, L0774: 1, L0775: 1, L0375: 1, L0653: 1, L0776: 1, L0629: 1, L0657: 1, L0658: 1, L0518: 1, L0809: 1, L0647: 1, L0788: 1, L0789: 1, L0793: 1, S0428: 1, L0352: 1, H0547: 1, H0593: 1, H0684: 1, H0670: 1, H0672: 1, S0378: 1, H0710: 1, H0522: 1, H0555: 1, L0744: 1, L0366: 1, S0424: 1 and H0506: 1.		
								L0439: 17, L0748: 13, L0438: 11, L0766: 6, L0777: 6, L0764: 5, H0648: 5, H0521: 4, L0744: 4, L0756: 4, L0779: 4, H0662: 3, H0589: 3, H0581: 3, H0038: 3, L0804: 3, L0775: 3, L0752: 3, S0442: 2, H0437: 2, H0069: 2, H0318: 2, H0428: 2, H0644: 2, S0364: 2, H0591: 2, L0761: 2, L0800: 2, L0774: 2, L0666: 2, S0374: 2, H0659: 2, H0518: 2, H0436: 2, L0754: 2, L0731: 2, L0758: 2, L0608: 2, H0423: 2, H0583: 1, H0657: 1, H0656: 1, H0661: 1, H0305: 1, S0444: 1, H0580: 1, H0329: 1, S0222: 1, H0608: 1, H0590: 1, L0040: 1, H0231: 1, H0046: 1, S0051: 1, H0354: 1, H0375: 1, S6028: 1, H0266: 1, S0250: 1, S0214: 1, H0615: 1, H0090: 1, T0067: 1, L0435: 1, T0041: 1, L0475: 1, S0440: 1, H0641: 1, H0646: 1, S0422: 1, L0637: 1, L0667: 1, L0646: 1, L0662: 1, L0768: 1, L0649: 1, L0389: 1, L0806: 1, L0652: 1, L0655: 1, L0661: 1, L0659: 1, L0809: 1, L0647: 1, L0792: 1, L4559: 1, L0663: 1, H0520: 1, H0519: 1.	5q	

2262	HTACX63	602694	2272	202 - 258	4869			1, H0660: 1, L0602: 1, S0152: 1, S0176: 1, S0168: 1, H0555: 1, H0478: 1, L0741: 1, L0751: 1, L0749: 1, L0750: 1, L0759: 1, L0684: 1, H0543: 1 and H0422: 1.		
2263	HTADC63	842131	2273	188 - 835	4870	Gln-79 to Cys-84, Lys-157 to Tyr-163, Ser-195 to Pro-201.		H0069: 1 and H0445: 1. L0740: 9, H0521: 7, L0766: 5, H0656: 4, H0545: 4, S0330: 4, L0748: 4, H0586: 3, H0052: 3, H0124: 3, H0264: 3, L0805: 3, L0439: 3, H0677: 3, T0002: 2, H0583: 2, S0282: 2, H0135: 2, H0551: 2, S0144: 2, S0142: 2, L0794: 2, L0655: 2, L0809: 2, L0665: 2, H0547: 2, L0754: 2, L0747: 2, L0749: 2, L0750: 2, L0731: 2, L0759: 2, H0445: 2, S0436: 2, H0542: 2, H0171: 1, H0265: 1, H0222: 1, S0040: 1, H0294: 1, S0134: 1, H0341: 1, S0212: 1, H0255: 1, H0661: 1, S0356: 1, S0442: 1, S0045: 1, S0278: 1, H0492: 1, H0069: 1, H0635: 1, H0156: 1, H0349: 1, H0318: 1, H0421: 1, H0546: 1, H0081: 1, H0050: 1, H0024: 1, H0107: 1, H0188: 1, H0284: 1, H0428: 1, H0553: 1, L0175: 1, S0036: 1, H0090: 1, H0059: 1, H0494: 1, S0344: 1, S0426: 1, L0763: 1, L0769: 1, L5566: 1, L0761: 1, L0646: 1, L0662: 1, L0387: 1, L0649: 1, L0803: 1, L0804: 1, L0375: 1, L0807: 1, L0634: 1, L0518: 1, L0382: 1, L0789: 1, L0790: 1, L0565: 1, S0148: 1, L0438: 1, H0435: 1, H0539: 1, H0710: 1, S0152: 1, S0028: 1, S0032: 1, L0777: 1.		

2264	HTADO61	695760	2274	217 - 336	4871	Ala-32 to Asp-39.	1, L0780: 1, L0757: 1, L0758: 1, L0588: 1, L0591: 1 and H0422: 1. AR089: 18, AR316: 18, AR060: 17 L0439: 10, H0617: 9, L0745: 8, L0731: 7, L0758: 7, L0747: 5, L0779: 5, L0748: 4, H0265: 3, H0181: 3, L0766: 3, L0499: 3, L0774: 3, L0775: 3, L0809: 3, L0746: 3, S0358: 2, H0069: 2, H0618: 2, H0253: 2, L0483: 2, H0424: 2, H0135: 2, H0038: 2, L0769: 2, L0764: 2, L0794: 2, L0653: 2, L0493: 2, L0511: 2, L0740: 2, L0757: 2, H0556: 1, H0686: 1, H0685: 1, H0650: 1, H0657: 1, S0001: 1, S0045: 1, H0645: 1, H0549: 1, H0586: 1, H0642: 1, L0477: 1, H0635: 1, S0049: 1, H0544: 1, H0545: 1, H0457: 1, H0178: 1, H0571: 1, H0081: 1, H0012: 1, H0620: 1, H0083: 1, H0356: 1, H0290: 1, H0615: 1, H0688: 1, H0039: 1, T0006: 1, H0040: 1, H0087: 1, H0529: 1, L0507: 1, L0502: 1, L0506: 1, L0500: 1, L0372: 1, L0765: 1, L0662: 1, L0768: 1, L0375: 1, L0508: 1, L0654: 1, L0655: 1, L0514: 1, L0515: 1, L0512: 1, L0513: 1, L0659: 1, L0783: 1, L0789: 1, L0791: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, S0374: 1, H0520: 1, H0547: 1, H0659: 1, H0658: 1, S0330: 1, H0436: 1, L0741: 1, L0751: 1, L0750: 1, L0777: 1, L0752: 1, S0434: 1, L0601: 1, H0423: 1, S0462: 1 and	7		
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2265	HTADQ22	561960	2275	205 - 279	4872		H0352: 1. AR215: 4, AR225: 4, AR309: 3, AR271: 3, AR266: 3, AR205: 3, AR053: 2, AR180: 2, AR224: 2, AR282: 2, AR250: 2, AR253: 2, AR277: 2, AR176: 2, AR270: 2, AR165: 2, AR311: 2, AR217: 2, AR172: 2, AR169: 1, AR166: 1, AR199: 1, AR230: 1, AR089: 1, AR104: 1 L0776: 8, H0412: 3, H0265: 2, H0249: 2, H0069: 2, S0002: 2, L0378: 2, L0596: 2, H0556: 1, S0114: 1, H0657: 1, H0483: 1, S0360: 1, H0392: 1, H0013: 1, H0309: 1, H0597: 1, H0050: 1, H0620: 1, H0179: 1, H0416: 1, H0617: 1, H0264: 1, T0041: 1, S0426: 1, L0769: 1, L0761: 1, L0644: 1, L0764: 1, L0773: 1, L0766: 1, L0806: 1, L0493: 1, H0144: 1, H0593: 1, H0660: 1, H0648: 1, S0328: 1, H0521: 1, H0694: 1, L0439: 1, L0757: 1, L0758: 1, L0589: 1, L0599: 1, S0276: 1, S0196: 1 and H0542: 1.			
2266	HTAEC59	846728	2276	287 - 352	4873		S0278: 31, S0144: 23, S0344: 20, L0754: 20, S0142: 13, S0126: 13, L0747: 13, H0295: 12, H0494: 12, L0751: 12, L0757: 10, L0743: 9, S0360: 8, L0745: 8, S0046: 7, S0027: 7, L0744: 7, L0748: 7, L0758: 7, H0413: 6, L0762: 6, L0439: 6, L0752: 6, L0759: 6, H0305: 4q24-q26	147680, 157147, 189800, 248510, 600919, 601542		

[illegible]

2267	HTAED89	801931	2277	979 - 1578	4874	1, H0156: 1, H0002: 1, H0042: 1, H0575: 1, S0010: 1, T0048: 1, H0581: 1, L0738: 1, H0530: 1, H0086: 1, H0123: 1, H0081: 1, H0023: 1, H0014: 1, H0051: 1, S0388: 1, H0375: 1, H0078: 1, H0267: 1, H0179: 1, H0288: 1, H0286: 1, H0328: 1, H0615: 1, H0039: 1, H0644: 1, H0169: 1, H0135: 1, H0090: 1, H0038: 1, H0634: 1, H0063: 1, H0264: 1, H0412: 1, T0069: 1, L0564: 1, H0429: 1, H0512: 1, H0334: 1, H0396: 1, S0352: 1, S0382: 1, S0448: 1, S0306: 1, S0466: 1, H0646: 1, S0002: 1, L0507: 1, L0502: 1, L0506: 1, L0536: 1, L0500: 1, L0372: 1, L0771: 1, L0794: 1, L0386: 1, L0381: 1, L0533: 1, L0803: 1, L0376: 1, L0508: 1, L0653: 1, L0654: 1, L0655: 1, L0514: 1, L0515: 1, L0512: 1, L0513: 1, L0517: 1, L0526: 1, L0783: 1, L0809: 1, L0529: 1, L0789: 1, L0532: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, L0438: 1, S0328: 1, S0330: 1, S0350: 1, H0522: 1, H0187: 1, H0576: 1, S3012: 1, S0037: 1, S0206: 1, S0032: 1, L0741: 1, L0749: 1, L0756: 1, L0777: 1, S0436: 1, L0587: 1, S0026: 1, H0667: 1, S0242: 1, S0196: 1, S0462: 1 and H0506: 1.		
						Lys-22 to Leu-35, Arg-53 to His-59, Arg-85 to Trp-93, Gly-95 to Asn-100, Pro-123 to Gln-130.	AR281: 20, AR280: 12, AR315: 11, AR314: 9, AR313: 5, AR104: 5, AR241: 4, AR282: 4, AR186: 4, AR089: 4,	

									AR247: 4, AR283: 4, AR192: 4, AR275: 4, AR266: 4, AR198: 4, AR206: 4, AR300: 4, AR033: 4, AR060: 3, AR316: 3, AR299: 3, AR249: 3, AR251: 3, AR312: 3, AR274: 3, AR039: 3, AR273: 3, AR096: 3, AR277: 3, AR271: 3, AR052: 3, AR202: 3, AR175: 3, AR291: 3, AR055: 2, AR184: 2, AR243: 2, AR185: 2, AR294: 2, AR292: 2, AR295: 2, AR182: 2, AR293: 2, AR310: 2, AR269: 2, AR204: 2, AR265: 2, AR309: 2, AR177: 2, AR270: 2, AR061: 2, AR218: 2, AR289: 2, AR053: 2, AR246: 2, AR205: 2, AR267: 2, AR213: 2, AR298: 2, AR268: 2, AR219: 2, AR258: 2, AR238: 2, AR286: 2, AR183: 1, AR229: 1, AR240: 1, AR248: 1, AR233: 1, AR284: 1, AR296: 1, AR285: 1, AR231: 1, AR263: 1, AR226: 1, AR290: 1, AR259: 1 H0069: 1 and L0758: 1.						
2268	HTAEF02	847134	2278	183 - 338	4875				AR060: 3, AR316: 2, AR089: 1 H0069: 1						
2269	HTAEH58	824756	2279	295 - 459	4876	Ser-17 to Leu-22.			S0114: 1, S0134: 1, H0069: 1, L0794: 1, H0436: 1 and						

2270	HTAEO35	732379	2280	63 - 170	4877		H0422: 1.			
2271	HTDAF68	637685	2281	167 - 331	4878		H0069: 1 and H0575: 1. H0477: 2			
2272	HTDAI38	878930	2282	1414 - 1644	4879	Gln-23 to Lys-29.	AR060: 4, AR316: 4, AR089: 3 L0766: 6, L0743: 6, L0748: 6, H0556: 5, H0521: 5, H0620: 4, L0776: 4, L0731: 4, H0265: 3, H0616: 3, S0152: 3, L0749: 3, L0759: 3, H0445: 3, H0663: 2, S0358: 2, H0599: 2, H0050: 2, H0266: 2, H0673: 2, H0623: 2, S0422: 2, L0646: 2, L0649: 2, L0775: 2, L0659: 2, H0547: 2, S3014: 2, S0206: 2, L0777: 2, L0752: 2, L0758: 2, L0596: 2, L0605: 2, L0599: 2, H0543: 2, H0423: 2, H0686: 1, S0114: 1, T0049: 1, S0134: 1, S0430: 1, H0583: 1, H0341: 1, H0484: 1, S0418: 1, S0045: 1, S0046: 1, H0370: 1, H0586: 1, H0486: 1, T0039: 1, H0250: 1, S0010: 1, S0346: 1, H0581: 1, H0421: 1, H0196: 1, H0046: 1, H0009: 1, H0081: 1, H0012: 1, H0510: 1, H0594: 1, H0553: 1, H0628: 1, L0055: 1, H0708: 1, H0598: 1, S0036: 1, H0135: 1, H0040: 1, H0634: 1, H0477: 1, H0264: 1, H0413: 1, S0038: 1, L0370: 1, T0042: 1, S0440: 1, H0646: 1, L0639: 1, L0772: 1, L0800: 1, L0645: 1, L0773: 1, L0521: 1, L0662: 1, L0768: 1, L0364: 1, L0803: 1, L0774: 1, L0806: 1, L0663: 1, H0519: 1, S0330: 1, S0378: 1, S0027: 1, S0028: 1, L0741: 1, L0744: 1, L0740: 1, L0751: 1, L0750: 1, L0756:	21q22.3	120220, 120240, 123580, 151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145	

2273	HTEAJ87	866486	2283	67 - 183	4880			1, L0755: 1, L0757: 1, L0591: 1 and H0352: 1. H0170: 3, L0776: 3, H0052: 2, H0261: 1, S0010: 1, H0038: 1, H0616: 1, S0386: 1, S0150: 1, L0794: 1, L0744: 1 and L0756: 1.	21q21.1	
2274	HTEAN76	830399	2284	290 - 403	4881	Met-1 to Gln-7.		L0776: 3, L0756: 3, H0673: 2, L0749: 2, L0481: 1, S0444: 1, S0360: 1, H0333: 1, H0486: 1, H0156: 1, L0022: 1, H0581: 1, H0165: 1, H0038: 1, S0294: 1, S0144: 1, S0344: 1, L0773: 1, L0766: 1, L0651: 1, L0653: 1, L0783: 1, L0663: 1, S0380: 1, S0406: 1, L0742: 1, L0744: 1, L0748: 1, L0747: 1 and L0601: 1.		
2275	HTEBL56	581100	2285	180 - 245	4882	Arg-14 to Gly-21.		L0740: 6, L0598: 4, L0754: 4, H0171: 3, L0758: 3, L0759: 3, H0624: 2, L0666: 2, H0547: 2, L0751: 2, L0779: 2, L0777: 2, S0031: 2, H0483: 1, S0358: 1, S0444: 1, L0142: 1, H0038: 1, UNKWN: 1, L0770: 1, L0768: 1, L0774: 1, L0805: 1, L0776: 1, L0658: 1, L0809: 1, L0789: 1, S0374: 1, H0520: 1, H0659: 1, H0670: 1, L0745: 1, L0747: 1 and L0780: 1.	2q31-q37	100690, 113300, 120070, 120131, 120131, 120180, 120180, 120180, 120180, 120180, 120190, 120250, 138030, 142989, 156232, 178600, 259900, 266100, 600258, 600321, 600430
2276	HTECE87	702025	2286	157 - 282	4883			L0776: 3, H0457: 2, L0769: 2, L0766: 2, S0044: 2, L0731: 2, L0605: 2, H0556: 1, H0449: 1, S0360: 1, H0393: 1, L0622: 1, H0156: 1, H0706: 1, H0253: 1, T0048: 1, H0318: 1, H0545: 1, H0563: 1, H0081: 1, S0250: 1, H0135: 1, H0038: 1, H0494: 1, S0144: 1, S0344: 1, S0002: 1, L0369: 1, L0762: 1, L0662: 1.	16q13-q21	114835, 118470, 132700, 172490, 209900, 600968

2277	HTEDF78	564215	2287	83 - 244	4884	Tyr-8 to Trp-15, Pro-42 to Lys-53.	1, L0549: 1, L0653: 1, L0807: 1, L0519: 1, L0666: 1, L0665: 1, H0521: 1, S014: 1, S0027: 1, L0779: 1, L0758: 1, L0593: 1, H0668: 1 and S0398: 1. H0038: 1		
2278	HTEDT87	779267	2288	949 - 1002	4885		AR089: 439, AR316: 341, AR060: 250 L0439: 8, H0046: 7, L0775: 4, H0013: 3, L0766: 3, H0547: 3, L0750: 3, L0777: 3, L0731: 3, L0757: 3, S0436: 3, S0420: 2, S0360: 2, L0586: 2, H0156: 2, H0620: 2, H0264: 2, L0763: 2, L0769: 2, L0649: 2, L0776: 2, L0438: 2, L0748: 2, L0752: 2, L0759: 2, H0265: 1, H0556: 1, H0685: 1, H0716: 1, H0294: 1, S0418: 1, S0444: 1, H0722: 1, H0351: 1, H0438: 1, H0497: 1, L0021: 1, S0010: 1, H0318: 1, H0085: 1, H0546: 1, H0024: 1, T0010: 1, H0510: 1, H0687: 1, H0688: 1, H0428: 1, L0456: 1, H0124: 1, H0038: 1, H0616: 1, H0059: 1, T0041: 1, S0382: 1, L0065: 1, H0646: 1, L0369: 1, L0770: 1, L0637: 1, L0800: 1, L0764: 1, L0363: 1, L0768: 1, L0774: 1, L0527: 1, L0659: 1, L0647: 1, L0663: 1, L0664: 1, L0665: 1, H0519: 1, H0435: 1, H0660: 1, H0648: 1, S0332: 1, L0754: 1, L0749: 1, L0756: 1, L0755: 1, L0584: 1, L0603: 1, H0543: 1, H0423: 1 and H0422: 1.		
2279	HTEDX05	862064	2289	65 - 127	4886		AR205: 32, AR039: 29, AR244: 25, AR206: 24,		

[illegible]



2280	HTEEC19	862065	2290	72 - 164	4887			AR314: 1, AR296: 1 H0069: 1, H0050: 1, H0038: 1, H0100: 1, L0766: 1 and L0779: 1.		
								AR089: 23, AR316: 19, AR060: 15 L0493: 91, L0515: 29, L0509: 25, L0514: 21, L0803: 13, L0508: 8, L0604: 7, H0599: 6, L0809: 5, H0445: 5, L0800: 4, L0511: 4, L0755: 4, L0731: 4, L0362: 4, H0543: 4, H0657: 3, L0598: 3, L0498: 3, L0805: 3, L0780: 3, L0759: 3, L0591: 3, S0026: 3, H0170: 2, S0360: 2, H0373: 2, H0038: 2, H0623: 2, H0494: 2, H0560: 2, H0561: 2, L0625: 2, L0503: 2, L0651: 2, L0653: 2, L0776: 2, L0792: 2, H0520: 2, H0555: 2, S0206: 2, L0748: 2, L0749: 2, L0756: 2, L0779: 2, L0590: 2, L0608: 2, H0668: 2, H0422: 2, S0040: 1, S0114: 1, S0134: 1, S0218: 1, H0656: 1, S0212: 1, H0489: 1, H0580: 1, S0045: 1, S0476: 1, H0431: 1, H0643: 1, L0623: 1, H0486: 1, H0069: 1, H0002: 1, H0097: 1, H0274: 1, S0474: 1, H0421: 1, L0040: 1, H0024: 1, S0003: 1, H0622: 1, H0553: 1, H0032: 1, H0388: 1, H0400: 1, S0036: 1, H0090: 1, H0551: 1, H0264: 1, H0412: 1, S0386: 1, T0042: 1, H0625: 1, S0210: 1, H0529: 1, L0520: 1, L0505: 1, L0506: 1, L0500: 1, L0761: 1, L0646: 1, L0662: 1, L0363: 1, L0768: 1, L0794: 1, L0375: 1, L0784: 1, L0655: 1,	2p11.1-q11.1	

2281	HTEGH03	815562	2291	156 - 257	4888	Trp-14 to Ser-33.	L0510: 1, L0634: 1, L0517: 1, L0519: 1, L0793: 1, L0666: 1, L0664: 1, S0374: 1, H0547: 1, H0519: 1, H0682: 1, H0659: 1, H0658: 1, H0648: 1, H0672: 1, H0539: 1, H0521: 1, H0522: 1, H0696: 1, S0146: 1, S0390: 1, L0747: 1, L0753: 1, S0260: 1, H0444: 1, S0434: 1, L0584: 1, S0242: 1, S0194: 1, S0276: 1, H0542: 1 and S0424: 1.	12q13	10777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153
							AR089: 15, AR316: 11, AR060: 8 L0748: 18, L0766: 15, S0410: 12, L0754: 12, L0731: 12, S0358: 9, L0659: 7, S0360: 6, H0622: 6, H0144: 6, L0740: 6, L0777: 6, L0758: 6, S0434: 5, L0589: 5, S0356: 4, H0616: 4, L0662: 4, L0783: 4, L0752: 4, L0596: 4, L0599: 4, H0171: 3, S0444: 3, S0408: 3, S0414: 3, H0156: 3, H0038: 3, H0494: 3, S0422: 3, L0770: 3, L0769: 3, L0772: 3, L0646: 3, L0773: 3, L0774: 3, L0776: 3, L0809: 3, S0374: 3, L0750: 3, S0276: 3, H0543: 3, H0624: 2, H0170: 2, H0583: 2, S0442: 2, S0045: 2, H0431: 2, S0346: 2, H0251: 2, H0123: 2, L0471: 2, S0628: 2, S0250: 2, H0644: 2, H0124: 2, S0210: 2, L0803: 2, L0775: 2, L0565: 2, H0435: 2, H0660: 2, S0328: 2, S0330: 2, L0749: 2, L0779: 2, L0755: 2, L0759: 2, L0587: 2, L0592: 2, L0362: 2, H0653: 2, S0192: 2, H0265: 1, H0686: 1, H0713: 1, H0717: 1, H0295: 1, S0116: 1,		

2282	HTEGH03	839477	2292	1 - 699	4889	Ala-12 to Gly-20, Lys-39 to Lys-55, Met-79 to Ser-91, Lys-104 to Pro-118, Ser-129 to Val-136, Ser-147 to Ser-153, Val-158 to Glu-165, Ala-167 to Gly-177, Thr-179 to Gly-197, Gly-211 to Ser-232.	<p>H0341: 1, S0420: 1, S0476: 1, H0351: 1, H0411: 1, H0550: 1, H0461: 1, H0333: 1, H0486: 1, H0427: 1, H0042: 1, H0575: 1, H0036: 1, H0004: 1, S0010: 1, H0581: 1, H0052: 1, H0263: 1, H0046: 1, L0041: 1, H0050: 1, H0719: 1, S0336: 1, S0003: 1, H0039: 1, L0483: 1, T0006: 1, H0553: 1, H0628: 1, H0212: 1, H0163: 1, H0090: 1, H0412: 1, H0059: 1, S0038: 1, S0386: 1, S0438: 1, H0647: 1, H0517: 1, L0369: 1, L0763: 1, L0796: 1, L0374: 1, L0764: 1, L0648: 1, L0767: 1, L0381: 1, L0805: 1, L0653: 1, L0606: 1, L0517: 1, L0547: 1, L0788: 1, L0793: 1, L0666: 1, L0664: 1, L0665: 1, S0052: 1, S0310: 1, S0126: 1, H0651: 1, H0539: 1, H0521: 1, S0044: 1, S0406: 1, H0627: 1, L0744: 1, L0747: 1, S0026: 1, H0665: 1, H0422: 1 and S0412: 1.</p>	12q13	<p>10777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153</p>
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TC2T60" E8005660

2283	HTEGS48	561492	2293	289 - 438	4890	Lys-27 to Glu-33.	L0809: 3, S0374: 3, L0750: 3, S0276: 3, H0543: 3, H0624: 2, H0170: 2, H0583: 2, S0442: 2, S0045: 2, H0431: 2, S0346: 2, H0251: 2, H0123: 2, L0471: 2, S6028: 2, S0250: 2, H0644: 2, H0124: 2, S0210: 2, L0803: 2, L0775: 2, L0565: 2, H0435: 2, H0660: 2, S0328: 2, S0330: 2, L0749: 2, L0779: 2, L0755: 2, L0759: 2, L0587: 2, L0592: 2, L0362: 2, H0653: 2, S0192: 2, H0265: 1, H0686: 1, H0713: 1, H0717: 1, H0295: 1, S0116: 1, H0341: 1, S0420: 1, S0476: 1, H0351: 1, H0411: 1, H0550: 1, H0461: 1, H0333: 1, H0486: 1, H0427: 1, H0042: 1, H0575: 1, H0036: 1, H0004: 1, S0010: 1, H0581: 1, H0052: 1, H0263: 1, H0046: 1, L0041: 1, H0050: 1, H0719: 1, S0336: 1, S0003: 1, H0039: 1, L0483: 1, T0006: 1, H0553: 1, H0628: 1, H0212: 1, H0163: 1, H0090: 1, H0412: 1, H0059: 1, S0038: 1, S0386: 1, S0438: 1, H0647: 1, H0517: 1, L0369: 1, L0763: 1, L0796: 1, L0374: 1, L0764: 1, L0648: 1, L0767: 1, L0381: 1, L0805: 1, L0653: 1, L0606: 1, L0517: 1, L0547: 1, L0788: 1, L0793: 1, L0666: 1, L0664: 1, L0665: 1, S0052: 1, S0310: 1, S0126: 1, H0651: 1, H0539: 1, H0521: 1, S0044: 1, S0406: 1, H0627: 1, L0744: 1, L0747: 1, S0026: 1, H0665: 1, H0422: 1 and S0412: 1.	AR060: 6, AR316: 5,
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2284	HTEGY81	637689	2294	36 - 98	4891			AR089: 3 H0038: 1 and L0758: 1. H0038: 2, S0142: 2, S0152: 2, L0756: 2, L0758: 2, S0424: 2, H0624: 1, H0171: 1, L0393: 1, H0346: 1, H0661: 1, S0376: 1, H0013: 1, H0575: 1, H0123: 1, S0388: 1, H0328: 1, H0551: 1, H0056: 1, S0210: 1, L0648: 1, L0789: 1, L0666: 1, L0664: 1, H0519: 1, L0759: 1, L0608: 1 and S0011: 1.			
2285	HTEHB11	824739	2295	271 - 309	4892			H0038: 1, H0616: 1 and L0779: 1.			
2286	HTEHB49	823145	2296	192 - 299	4893		Val-24 to Arg-31.	L0748: 8, L0777: 5, L0779: 3, H0046: 2, H0038: 2, L0756: 2, H0057: 1, H0634: 1, H0616: 1, L0662: 1, L0803: 1, L0792: 1, L0666: 1, H0684: 1, H0670: 1 and L0749: 1.	5q34		109690, 109690, 123101, 180071, 600584
2287	HTEHS91	862067	2297	343 - 543	4894			AR089: 11, AR316: 10, AR060: 9 L0438: 7, L0740: 4, H0416: 3, L0803: 3, L0777: 3, S0005: 2, H0544: 2, H0271: 2, H0090: 2, H0038: 2, H0551: 2, S0440: 2, L0766: 2, L0809: 2, H0436: 2, L0748: 2, L0439: 2, L0754: 2, L0758: 2, L0366: 2, H0265: 1, H0556: 1, H0583: 1, H0656: 1, H0341: 1, S0360: 1, S0408: 1, S0132: 1, S0476: 1, H0550: 1, S0222: 1, H0632: 1, H0492: 1, H0013: 1, L0021: 1, H0599: 1, S0049: 1, H0123: 1, H0050: 1, H0375: 1, H0266: 1, H0622: 1, H0553: 1, H0383: 1, H0135: 1, H0040: 1, H0616: 1, H0087: 1, S0426: 1, L0769: 1, L0641: 1, L0644: 1, L0771: 1, L0773:	7q21.1-q31.1		126650, 126650, 129900, 150240, 154276, 171050, 171060, 180105, 222800, 246900, 602136, 602136, 602136, 602447

2288	HTEHV60	637690	2298	38 - 130	4895			1, L0662: 1, L0768: 1, L0655: 1, L0665: 1, H0682: 1, H0696: 1, H0478: 1, L0749: 1, L0780: 1, L0759: 1 and H0422: 1.		
2289	HTEHW80	862068	2299	96 - 185	4896			H0038: 2 and H0616: 1.		
2290	HTEID25	737852	2300	141 - 257	4897			H0038: 1		
2291	HTEIJ23	784268	2301	156 - 209	4898		Met-1 to Trp-9.	H0038: 2		
2292	HTEIM62	806472	2302	183 - 257	4899			L0754: 7, L0766: 5, L0794: 4, L0749: 4, H0618: 3, H0591: 3, H0038: 3, L0776: 3, L0779: 3, H0644: 2, H0090: 2, L0761: 2, H0693: 2, L0748: 2, L0755: 2, L0759: 2, H0445: 2, H0170: 1, H0650: 1, H0657: 1, S0212: 1, S0420: 1, S0376: 1, S0046: 1, H0549: 1, H0431: 1, H0427: 1, H0036: 1, H0318: 1, H0046: 1, H0050: 1, H0024: 1, S0250: 1, H0615: 1, L0141: 1, H0553: 1, L0142: 1, L0143: 1, H0032: 1, H0616: 1, H0063: 1, L0771: 1, L0662: 1, L0809: 1, L0519: 1, L0666: 1, H0144: 1, H0520: 1, H0658: 1, S0350: 1, H0521: 1, H0631: 1, S0314: 1, L0747: 1, L0758: 1, L0596: 1, L0591: 1, L0595: 1, S0011: 1 and S0026: 1.		
2293	HTEIV33	603393	2303	207 - 227	4900			AR089: 10, AR316: 10, AR060: 9		
2294	HTEIV65	570826	2304	102 - 227	4901		Ser-36 to Ser-41.	H0616: 3, L0520: 2, L0759: 2, H0294: 1, H0650: 1, S0360: 1, L0021: 1, H0318: 1, H0038: 1, L0475: 1, L0794: 1, L0803: 1, L0779: 1 and L0757: 1.		
								H0038: 1 and H0616: 1.		
								AR089: 46, AR316: 37, AR060: 29		
								H0038: 1		

2295	HTEJCS0	637691	2305	96 - 185	4902	Lys-24 to Asn-29.	L0758: 2, H0150: 1, H0038: 1 and L0779: 1.		
2296	HTEJD20	637687	2306	257 - 292	4903		L0805: 4, L0748: 4, H0038: 3, L0776: 2, L0758: 2, H0170: 1, S0402: 1, S0218: 1, S0444: 1, H0052: 1, H0024: 1, H0032: 1, H0059: 1, L0770: 1, L0662: 1, L0766: 1, L0527: 1, L0558: 1, L0789: 1, S0374: 1, H0593: 1, L0751: 1, L0749: 1, L0779: 1, L0777: 1, L0731: 1, L0608: 1, S0192: 1 and S0412: 1.		
2297	HTEJD61	828178	2307	94 - 168	4904		AR060: 5, AR316: 5, AR089: 4 H0169: 6, H0038: 3 and L0665: 1.		
2298	HTEJF31	762831	2308	124 - 246	4905	Gln-34 to Lys-40.	H0038: 1		
2299	HTEJI29	824733	2309	298 - 351	4906		H0038: 1		
2300	HTEJL16	603409	2310	136 - 249	4907		H0038: 1		
2301	HTEJF65	596826	2311	389 - 490	4908		L0747: 28, S0192: 21, L0659: 17, L0740: 12, H0038: 10, L0757: 10, L0758: 10, S0360: 9, H0545: 9, L0662: 9, L0775: 9, L0665: 9, L0439: 9, L0750: 9, L0664: 8, S0358: 7, H0616: 7, L0666: 7, L0601: 7, L0777: 6, L0731: 6, L0471: 5, S0003: 5, H0090: 5, H0547: 5, S0206: 5, L0748: 5, L0756: 5, L0752: 5, S0011: 5, S0026: 5, T0049: 4, L0717: 4, H0575: 4, H0012: 4, H0620: 4, H0083: 4, L0770: 4, L0764: 4, L0794: 4, L0766: 4, L0804: 4, L0375: 4, L0806: 4, L0754: 4, L0779: 4, L0596: 4, L0588: 4, L0581: 4, L0603: 4, H0556: 3, H0431: 3, H0370: 3, S0010: 3, H0596: 3, L0157: 3, S0388: 3, T0023: 3,		

								H0031: 3, H0264: 3, L0564: 3, S0372: 3, L0769: 3, L0667: 3, L0521: 3, L0768: 3, L0774: 3, L0657: 3, L0783: 3, L0809: 3, L0663: 3, S0126: 3, S0122: 3, H0682: 3, L0759: 3, L0591: 3, H0352: 3, L0353: 2, H0686: 2, S0040: 2, H0295: 2, H0650: 2, S0045: 2, S0046: 2, S0132: 2, H0549: 2, S0222: 2, H0427: 2, H0156: 2, H0318: 2, H0263: 2, H0597: 2, H0546: 2, H0046: 2, H0050: 2, H0024: 2, T0010: 2, H0375: 2, H0266: 2, H0271: 2, H0030: 2, H0553: 2, H0644: 2, H0674: 2, H0135: 2, H0591: 2, H0412: 2, H0413: 2, H0059: 2, H0100: 2, S0002: 2, L0369: 2, L0520: 2, L0763: 2, L0637: 2, L0761: 2, L0372: 2, L0767: 2, L0649: 2, L0803: 2, L0776: 2, L0382: 2, L0647: 2, L0565: 2, H0690: 2, H0659: 2, H0670: 2, H0660: 2, H0648: 2, H0672: 2, S0404: 2, S0406: 2, H0555: 2, H0478: 2, H0626: 2, H0627: 2, L0070: 2, S0314: 2, S0032: 2, L0741: 2, L0590: 2, L0592: 2, L0599: 2, L0593: 2, L0595: 2, H0543: 2, L0600: 2, H0170: 1, H0171: 1, H0265: 1, T0002: 1, H0140: 1, S0470: 1, H0294: 1, L0785: 1, S0212: 1, S0282: 1, H0484: 1, H0671: 1, H0663: 1, H0664: 1, H0662: 1, H0638: 1, L0005: 1, S0442: 1, S0444: 1, H0676: 1, H0208: 1, H0619: 1, H0393: 1, S6022: 1, H0369: 1, H0550: 1, H0455: 1, H0587: 1, H0333: 1, H0331: 1, H0574: 1,
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2302	HTEJY20	840706	2312	1747 - 1881	4909	Ser-25 to Asn-30.	<p>H0559: 1, T0039: 1, H0013: 1, S0280: 1, H0097: 1, H0042: 1, T0082: 1, S0474: 1, H0581: 1, S0049: 1, H0251: 1, H0309: 1, H0235: 1, H0011: 1, H0051: 1, H0021: 1, H0510: 1, H0594: 1, S0334: 1, H0687: 1, S0250: 1, S0214: 1, H0119: 1, T0006: 1, H0628: 1, H0617: 1, L0055: 1, H0032: 1, H0169: 1, H0124: 1, H0598: 1, H0551: 1, T0067: 1, H0128: 1, L0475: 1, H0560: 1, H0561: 1, S0352: 1, S0438: 1, S0440: 1, H0132: 1, H0641: 1, H0647: 1, H0646: 1, S0344: 1, S0426: 1, L0598: 1, H0529: 1, L0762: 1, L0646: 1, L0800: 1, L0771: 1, L0773: 1, L0388: 1, L0650: 1, L0378: 1, L0805: 1, L0653: 1, L0527: 1, L0558: 1, L0636: 1, L0526: 1, L0367: 1, L0787: 1, L0788: 1, H0144: 1, H0691: 1, H0520: 1, H0519: 1, H0365: 1, H0435: 1, H0658: 1, S0380: 1, H0521: 1, H0696: 1, S0044: 1, H0436: 1, S012: 1, L0786: 1, L0780: 1, L0755: 1, S0260: 1, H0444: 1, H0445: 1, H0343: 1, H0595: 1, S0436: 1, L0480: 1, L0605: 1, L0608: 1, L0362: 1, L0366: 1 and S0196: 1.</p> <p>AR089: 22, AR316: 18, AR060: 16  L0758: 8, L0731: 6, L0770: 5, L0747: 5, L0766: 4, L0742: 4, S0037: 3, L0750: 3, L0752: 3, H0253: 2, H0038: 2, L0598: 2, L0792: 2, H0144: 2, S0126: 2, S0328: 2, H0624: 1, H0556: 1.</p>		
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2303	HTEKD35	604979	2313	41 - 136	4910				1, H0295: 1, S0418: 1, S0045: 1, S0046: 1, H0619: 1, H0069: 1, S0474: 1, H0046: 1, H0150: 1, S0051: 1, S0003: 1, H0328: 1, H0615: 1, L0483: 1, H0169: 1, H0212: 1, H0634: 1, H0413: 1, H0100: 1, S0382: 1, S0422: 1, L0764: 1, L0771: 1, L0803: 1, L0775: 1, L0807: 1, L0666: 1, L0665: 1, L0438: 1, H0519: 1, S0152: 1, S0146: 1, H0436: 1, H0626: 1, L0744: 1, L0439: 1, L0756: 1, L0753: 1, S0434: 1, L0599: 1 and H0422: 1.		
2304	HTEKP82	694648	2314	457 - 564	4911		Thr-22 to Gln-35.		H0038: 1 AR089: 168, AR316: 132, AR060: 100 L0758: 6, L0750: 3, L0752: 3, H0253: 2, H0038: 2, L0731: 2, H0619: 1, L0666: 1, L0665: 1, H0144: 1, L0438: 1, L0439: 1, L0747: 1, L0756: 1, L0753: 1 and L0599: 1.		
2305	HTEKV69	877673	2315	634 - 1602	4912		Pro-115 to Leu-122, Lys-164 to Lys-171, Tyr-307 to Ile-312.		AR251: 23, AR053: 21, AR310: 21, AR309: 21, AR205: 19, AR244: 19, AR213: 18, AR263: 18, AR273: 17, AR265: 17, AR313: 16, AR312: 16, AR052: 16, AR194: 16, AR206: 16, AR243: 15, AR039: 15, AR202: 15, AR246: 14, AR274: 14, AR271: 13, AR198: 13, AR266: 12, AR241: 12, AR247: 12, AR204: 11, AR192: 11, AR295: 11, AR055: 11, AR275: 10, AR282: 10, AR253: 10, AR285: 10, AR033: 9,		

								AR096: 9, AR289: 9, AR248: 9, AR240: 8, AR277: 8, AR219: 8, AR284: 8, AR186: 8, AR104: 8, AR291: 8, AR290: 8, AR299: 8, AR177: 8, AR175: 8, AR286: 7, AR185: 7, AR292: 7, AR270: 7, AR293: 7, AR218: 7, AR268: 7, AR249: 7, AR183: 6, AR269: 6, AR283: 6, AR061: 6, AR296: 6, AR294: 6, AR298: 6, AR267: 6, AR182: 6, AR232: 6, AR256: 5, AR227: 5, AR316: 5, AR300: 5, AR234: 5, AR184: 5, AR226: 5, AR258: 5, AR089: 5, AR238: 5, AR229: 4, AR233: 4, AR179: 4, AR259: 3, AR237: 3, AR231: 3, AR060: 3 H0038: 2, L0626: 1, L0794: 1, L0789: 1 and L0758: 1.			
2306	HTEKZ52	762832	2316	146 - 244	4913			H0038: 1			
2307	HTEQG28	840031	2317	389 - 454	4914			AR089: 9, AR316: 7, AR060: 5 H0305: 2, H0436: 2, H0581: 1 and H0616: 1.			
2308	HTFOB75	900824	2318	2365 - 2793	4915	Gln-8 to Cys-13, Pro-18 to Leu-24, His-62 to Pro-68.		AR233: 31, AR293: 20, AR275: 19, AR192: 18, AR182: 16, AR274: 16, AR039: 16, AR298: 15, AR229: 14, AR205: 13, AR292: 13, AR286: 12, AR285: 12, AR204: 12, AR282: 12, AR273: 11.	15q11.2- 15q22.33	103581, 146150, 151670, 203200, 203200, 227220, 600374, 601623, 601780, 601800, 601889, 602117	



[illegible]

2309	HTGAA35	737945	2319	180 - 212	4916			1, H0704: 1, S0406: 1, S0390: 1, S0027: 1, L0756: 1, L0779: 1, L0780: 1, L0757: 1, L0596: 1, L0588: 1, L0589: 1, L0366: 1, S0011: 1, S0026: 1, H0665: 1, S0194: 1, H0423: 1, S0424: 1 and H0008: 1.			
2310	HTGAD74	834464	2320	311 - 382	4917			H0457: 9 and S0134: 1.			
2311	HTGAP05	637715	2321	211 - 282	4918			S0134: 2 and H0618: 1.			
								AR089: 8, AR316: 7, AR060: 6			
								S0134: 1, L0005: 1, H0123: 1, L0662: 1 and L0659: 1.			
2312	HTGAQ29	637693	2322	127 - 285	4919			S0134: 1			
								Ser-19 to Cys-24, Glu-32 to Gly-38.			
2313	HTGAR21	838159	2323	97 - 201	4920			Phe-25 to Gly-32.			
2314	HTGAS70	827320	2324	435 - 563	4921			S0134: 1			
								H0031: 2, S0136: 2, S0134: 1, H0381: 1, H0052: 1, T0041: 1 and S3014: 1.			
2315	HTGAT65	688864	2325	155 - 205	4922			S0134: 1, S0222: 1, H0428: 1 and S0424: 1.			
2316	HTGAU17	605125	2326	109 - 213	4923			H0265: 1 and S0134: 1.			
2317	HTGBF47	511189	2327	188 - 409	4924			S0134: 1 and S0002: 1.			
2318	HTGBK95	834490	2328	271 - 321	4925			AR089: 46, AR316: 38, AR060: 32			
								L0777: 5, L0766: 3, L0803: 3, L0439: 3, S0360: 2, L0598: 2, L0666: 2, L0748: 2, T0049: 1, S0134: 1, S0116: 1, L0717: 1, H0586: 1, H0486: 1, H0575: 1, H0510: 1, H0553: 1, H0560: 1, S0422: 1, L0763: 1, L0769: 1, L0521: 1, L0767: 1, L0768: 1, L0775: 1, L0663: 1, S0374: 1, L0438: 1, H0520: 1, H0682: 1, S0328: 1, L0740: 1, L0757: 1, S0192: 1 and H0543: 1.			
2319	HTGCC01	598903	2329	55 - 141	4926			S0134: 1			
2320	HTGCK43	828867	2330	231 - 278	4927			AR089: 25, AR316: 24,	1p35-p34.1		118210, 120550,

										AR060: 24	S0410: 9, L0755: 7, H0031: S, H0038: 5, L0771: 4, L0766: 4, L0809: 4, L0742: 4, L0747: 4, L0786: 4, S0360: 3, H0266: 3, H0059: 3, S0150: 3, L0768: 3, L0775: 3, L0806: 3, L0777: 3, L0601: 3, H0171: 2, H0661: 2, H0592: 2, H0632: 2, H0486: 2, H0530: 2, H0617: 2, H0616: 2, L0769: 2, L0805: 2, L0493: 2, L0517: 2, L0789: 2, H0547: 2, S0314: 2, L0750: 2, L0752: 2, L0731: 2, L0758: 2, L0588: 2, H0624: 1, H0294: 1, S0134: 1, H0657: 1, H0341: 1, H0483: 1, H0125: 1, S0444: 1, S0046: 1, S0476: 1, H0393: 1, H0497: 1, H0333: 1, H0331: 1, H0559: 1, L0622: 1, H0618: 1, S0010: 1, T0048: 1, H0581: 1, H0263: 1, H0597: 1, H0231: 1, H0544: 1, H0546: 1, H0545: 1, H0150: 1, H0041: 1, H0267: 1, H0288: 1, H0290: 1, H0292: 1, S0003: 1, L0142: 1, H0181: 1, H0169: 1, H0124: 1, H0598: 1, H0040: 1, H0087: 1, H0412: 1, H0494: 1, S0440: 1, H0130: 1, S0344: 1, L0762: 1, L0371: 1, L0770: 1, L0521: 1, L0381: 1, L0499: 1, L0498: 1, L0497: 1, L0522: 1, L0803: 1, L0774: 1, L0378: 1, L0509: 1, L0776: 1, L0807: 1, L0514: 1, L0515: 1, L0634: 1, L0782: 1, H0690: 1, H0658: 1, H0670: 1, H0648: 1, S0037: 1, S0027: 1, L0748: 1, L0749: 1, L0757: 1, L0759: 1, H0444: 1, S0436: 1, S0026: 1 and	120570, 120575, 121800, 130500, 133200, 138140, 138971, 171760, 171760, 172411, 178300, 185470, 230350, 255800, 602771
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2321	HTGDS43	605094	2331	271 - 339	4928			H0542: 1. S0134: 1 and S0001: 1.	7p13-pl2	138079, 138079, 165240, 165240, 165240, 180104, 203740, 219800, 261670, 601649	
2322	HTGDS92	839478	2332	80 - 199	4929			L0731: 25, L0754: 23, L0601: 17, L0751: 9, L0750: 9, L0748: 8, H0181: 7, L0742: 7, L0740: 7, L0747: 7, H0087: 4, H0255: 3, S0045: 3, S0046: 3, H0441: 3, H0282: 3, T0048: 3, H0032: 3, T0067: 3, L0753: 3, L0757: 3, L0590: 3, L0603: 3, H0170: 2, S0134: 2, S0132: 2, H0101: 2, H0599: 2, H0309: 2, H0546: 2, H0150: 2, H0081: 2, H0163: 2, H0130: 2, L0743: 2, L0759: 2, S0260: 2, L0596: 2, L0362: 2, H0556: 1, H0295: 1, S0114: 1, T0049: 1, H0341: 1, H0484: 1, H0663: 1, S0278: 1, H0549: 1, S0222: 1, H0455: 1, H0299: 1, H0602: 1, H0333: 1, T0039: 1, H0427: 1, S0280: 1, H0156: 1, H0002: 1, H0196: 1, T0115: 1, H0178: 1, H0123: 1, S0051: 1, H0510: 1, S6028: 1, H0188: 1, H0428: 1, T0023: 1, T0006: 1, H0213: 1, H0030: 1, H0031: 1, H0090: 1, H0412: 1, H0413: 1, H0102: 1, H0494: 1, S0344: 1, L0543: 1, S0013: 1, S3014: 1, S0027: 1, S0206: 1, L0749: 1, L0756: 1, L0755: 1, H0445: 1, L0588: 1, L0604: 1, L0593: 1, L0361: 1, S0194: 1, H0423: 1 and L0600: 1.			
2323	HTGEX34	877490	2333	13 - 147	4930	Arg-29 to Lys-35.	AR089: 13, AR316: 10, AR060: 7				



2324	HTGFM31	862070	2334	73 - 189	4931			S0218: 1, H0393: 1 and H0590: 1. AR060: 4, AR316: 4, AR089: 3 H0265: 1 and S0218: 1. AR089: 6, AR316: 5, AR060: 4 S0218: 1, H0590: 1 and H0309: 1.			
2325	HTGGM37	827310	2335	290 - 373	4932						
2326	HTGGM22	782853	2336	243 - 305	4933						
2327	HTHAA41	809107	2337	128 - 226	4934	Leu-20 to Gly-26.		L0754: 8, L0758: 8, H0038: 6, H0616: 6, L0766: 6, L0666: 6, L0794: 5, L0749: 5, L0779: 5, S0024: 3, H0031: 3, L0362: 3, L0803: 2, L0748: 2, L0751: 2, L0747: 2, S0358: 1, S0360: 1, H0333: 1, L0105: 1, H0545: 1, H0009: 1, H0266: 1, H0591: 1, H0062: 1, H0551: 1, H0412: 1, H0413: 1, H0100: 1, H0494: 1, L0598: 1, L0369: 1, L0763: 1, L0637: 1, L0662: 1, L0768: 1, L0388: 1, L0804: 1, L0659: 1, L0664: 1, L0665: 1, H0697: 1, L0438: 1, H0520: 1, S0454: 1, S0406: 1, L0439: 1, L0777: 1, L0752: 1, L0755: 1, L0731: 1, L0599: 1, S0026: 1, H0653: 1 and H0542: 1. H0556: 1, H0632: 1 and H0063: 1. H0510: 9, S0360: 5, H0509: 5, H0355: 4, S0438: 4, L0803: 4, L0775: 4, L0740: 4, H0393: 3, T0060: 3, H0124: 3, L0065: 3, L0774: 3, L0375: 3, H0519: 3, H0710: 3, L0748: 3, L0439:			
2328	HTHBC58	839916	2338	519 - 563	4935						
2329	HTHBO72	824078	2339	335 - 397	4936						

2330	HTHBQ29	561547	2340	165 - 284	4937	Pro-33 to Tyr-39.	H0063: 1	3, L0747: 3, L0779: 3, L0755: 3, L0757: 3, L0759: 3, H0444: 3, L0599: 3, H0716: 2, S0298: 2, S0444: 2, H0580: 2, S0278: 2, H0431: 2, H0331: 2, H0574: 2, H0427: 2, S0003: 2, L0483: 2, H0553: 2, H0551: 2, L0794: 2, L0804: 2, L0659: 2, L0789: 2, H0435: 2, H0521: 2, S3014: 2, S0027: 2, L0750: 2, L0731: 2, H0667: 2, S0342: 1, H0717: 1, H0255: 1, H0661: 1, H0675: 1, S0410: 1, H0730: 1, H0728: 1, H0392: 1, H0497: 1, H0362: 1, H0632: 1, T0040: 1, H0013: 1, H0069: 1, H0599: 1, H0098: 1, H0575: 1, H0004: 1, L0738: 1, H0546: 1, H0046: 1, H0564: 1, L0471: 1, H0012: 1, H0057: 1, H0014: 1, H0373: 1, T0010: 1, S6028: 1, H0271: 1, H0039: 1, H0030: 1, H0031: 1, L0456: 1, H0163: 1, H0090: 1, H0040: 1, H0634: 1, H0063: 1, H0477: 1, T0069: 1, H0100: 1, S0344: 1, L0763: 1, L0770: 1, L0769: 1, L0638: 1, L0662: 1, L0378: 1, L0606: 1, L0807: 1, L0545: 1, L0787: 1, L0665: 1, H0144: 1, S0374: 1, L0438: 1, H0520: 1, H0711: 1, H0672: 1, H0539: 1, S0380: 1, H0518: 1, H0696: 1, H0436: 1, H0478: 1, S3012: 1, S0390: 1, S0028: 1, L0749: 1, L0777: 1, L0752: 1, H0668: 1, S0194: 1, H0542: 1 and H0506: 1.	
2331	HTHB76	866198	2341	207 - 245	4938		H0063: 1	H0552: 28, L0438: 11, L0641: 8, L0740: 8, L0747: 5,	102770, 115200, 132810, 132810,

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							S0003: 4, L0666: 4, L0748: 4, L0439: 4, L0751: 4, T0006: 3, H0090: 3, L0598: 3, L0766: 3, L0657: 3, H0519: 3, H0445: 3, S0412: 3, S0360: 2, H0486: 2, L0471: 2, H0012: 2, H0014: 2, S0022: 2, H0428: 2, H0644: 2, H0634: 2, H0551: 2, L0769: 2, L0637: 2, L0803: 2, L0789: 2, L0664: 2, L0754: 2, L0749: 2, L0779: 2, L0752: 2, L0759: 2, H0665: 2, L0600: 2, H0624: 1, H0295: 1, S0298: 1, S0212: 1, H0402: 1, H0580: 1, H0208: 1, H0550: 1, H0586: 1, H0497: 1, H0485: 1, H0013: 1, H0069: 1, H0575: 1, H0318: 1, S0474: 1, H0581: 1, H0205: 1, H0620: 1, L0143: 1, H0628: 1, H0169: 1, H0591: 1, H0038: 1, H0616: 1, H0063: 1, H0412: 1, T0041: 1, H0494: 1, S0210: 1, H0695: 1, L0520: 1, L0770: 1, L0667: 1, L0646: 1, L0773: 1, L0662: 1, L0794: 1, L0649: 1, L0775: 1, L0375: 1, L0806: 1, L0653: 1, L0659: 1, L0517: 1, L0518: 1, L0783: 1, L0809: 1, L0647: 1, L0665: 1, H0520: 1, H0435: 1, H0658: 1, S0188: 1, S0027: 1, L0755: 1, L0731: 1, L0758: 1, L0589: 1, S0026: 1, H0667: 1, S0242: 1, S0276: 1, H0422: 1 and : 1.	188540, 600234, 601414, 601691, 601691, 601691, 601691, 601718, 602094
2332	HTHBZ91	637697	2342	31 - 144	4939		H0063: 1	
2333	HTHCA30	637124	2343	158 - 229	4940		AR089: 56, AR316: 47, AR060: 38 L0747: 14, L0752: 14, L0748: 11, L0750: 8, L0757: 7, H0657: 6, L0758: 6, L0740:	

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2334	HTHCM60	600374	2344	250 - 273	4941			1, S0053: 1, S0374: 1, H0435: 1, H0670: 1, H0648: 1, S0328: 1, H0436: 1, S0032: 1, L0439: 1, L0754: 1, L0756: 1, L0777: 1, H0595: 1, L0588: 1, L0605: 1, L0591: 1, L0599: 1, L0608: 1, L0366: 1 and H0136: 1.		
2335	HTHDB20	669032	2345	105 - 323	4942	Ser-36 to Arg-42.		H0063: 1 and H0423: 1. AR313: 64, AR162: 36, AR161: 36, AR173: 35, AR163: 35, AR258: 35, AR180: 34, AR300: 34, AR165: 34, AR262: 32, AR175: 32, AR164: 32, AR096: 31, AR178: 30, AR219: 29, AR183: 29, AR247: 29, AR196: 29, AR179: 28, AR166: 28, AR269: 27, AR240: 27, AR299: 27, AR229: 27, AR218: 27, AR257: 26, AR293: 25, AR296: 24, AR234: 24, AR182: 23, AR238: 23, AR294: 22, AR191: 22, AR185: 22, AR270: 21, AR268: 21, AR236: 20, AR260: 20, AR089: 20, AR181: 20, AR174: 20, AR176: 20, AR233: 19, AR297: 19, AR285: 19, AR199: 18, AR290: 18, AR275: 18, AR287: 18, AR226: 17, AR274: 17, AR104: 17, AR316: 17, AR231: 16, AR264: 16, AR189: 16, AR200: 15, AR286: 15, AR312: 15, AR203: 15, AR255: 15, AR267: 15, AR060: 14, AR177: 14,		

2336	HTHDF45	621313	2346	175 - 240	4943		AR033: 14, AR277: 14, AR295: 13, AR228: 13, AR282: 13, AR188: 13, AR211: 12, AR237: 12, AR230: 12, AR291: 12, AR288: 11, AR242: 11, AR239: 10, AR227: 10, AR308: 10, AR266: 10, AR256: 10, AR263: 10, AR311: 9, AR261: 9, AR190: 9, AR192: 9, AR213: 8, AR235: 8, AR289: 7, AR212: 7, AR168: 7, AR272: 7, AR053: 6, AR210: 6, AR172: 5, AR232: 5, AR061: 5, AR283: 5, AR039: 5, AR225: 5, AR252: 5, AR309: 5, AR224: 5, AR171: 5, AR055: 4, AR216: 4, AR169: 4, AR271: 4, AR214: 3, AR205: 3, AR223: 3, AR193: 3, AR215: 3, AR222: 2, AR198: 2, AR204: 2, AR217: 2 H0063: 1		
							H0341: 1, H0351: 1, H0023: 1, H0063: 1, L0769: 1 and H0543: 1.		
2337	HTHDF86	815686	2347	118 - 360	4944		H0063: 1		
2338	HTHDI18	824685	2348	247 - 450	4945		H0063: 1		
2339	HTHDP65	637699	2349	217 - 348	4946		L0005: 5, L0766: 5, H0677: 5, L0758: 4, H0636: 3, L0731: 3, L0759: 3, S0046: 2, H0586: 2, L0157: 2, L0471: 2, L0775: 2, L0665: 2, H0144: 2, H0696: 2, S0434: 2, H0423: 2, H0624: 1, H0171: 1, S0040: 1, S0218:		

2340	HTHDT25	655370	2350	60 - 197	4947			1, H0650: 1, H0638: 1, S0376: 1, H0580: 1, S0007: 1, S0045: 1, H0639: 1, H0333: 1, H0013: 1, H0156: 1, H0318: 1, H0085: 1, S0388: 1, S0051: 1, H0615: 1, H0428: 1, H0628: 1, H0032: 1, S0036: 1, H0090: 1, H0591: 1, H0063: 1, H0494: 1, L0065: 1, S0438: 1, S0440: 1, H0131: 1, H0646: 1, S0422: 1, L0598: 1, L0763: 1, L0646: 1, L0662: 1, L0768: 1, L0803: 1, L0655: 1, L0664: 1, S0052: 1, H0701: 1, H0724: 1, H0520: 1, H0547: 1, H0682: 1, H0660: 1, H0710: 1, H0521: 1, H0704: 1, H0436: 1, H0478: 1, H0627: 1, L0756: 1, L0777: 1, L0608: 1, L0366: 1, H0665: 1, S0242: 1, S0194: 1, S0276: 1 and H0422: 1.		
2341	HTHDTV50	789402	2351	119 - 190	4948			H0063: 1 AR089: 16, AR316: 12, AR060: 8 H0063: 2 and H0057: 1.		
2342	HTJMA64	775181	2352	138 - 416	4949	Ser-35 to Thr-42, Pro-66 to Arg-74.		AR060: 6, AR316: 5, AR089: 4 L0659: 2, L0362: 2, S0222: 1, H0392: 1, H0013: 1, L0471: 1, L0163: 1, H0068: 1, H0591: 1, H0488: 1, L0764: 1, L0774: 1, L0651: 1, L0809: 1, L0666: 1, L0664: 1, H0144: 1, H0690: 1, S0152: 1, L0748: 1, L0779: 1, L0758: 1 and S0434: 1.		
2343	HTJMJ72	840032	2353	263 - 346	4950			AR089: 30, AR316: 24, AR060: 18 H0586: 1, H0488: 1, H0494: 1, L0803: 1, L0804: 1 and L0653: 1.		

2344	HTLAD74	638978	2354	163 - 264	4951		AR089: 2, AR316: 1, AR060: 1 H0253: 1		
2345	HTLAF81	855970	2355	195 - 767	4952	Leu-78 to Phe-84, Asp-102 to Ala-113.	AR060: 94, AR316: 62, AR089: 26 H0585: 15, H0253: 9, H0141: 7, H0618: 5, H0427: 2, H0650: 1, H0592: 1, H0581: 1, H0052: 1, H0545: 1, H0616: 1, H0087: 1, H0551: 1, H0521: 1, H0522: 1, L0758: 1 and H0506: 1.	2	
2346	HTLBF46	839774	2356	176 - 760	4953	Glu-62 to Cys-76, Ser-94 to Lys-99, Tyr-148 to Asp-153, Thr-165 to Gly-180.	H0618: 19, H0253: 10, H0052: 6, L0803: 5, L0809: 5, L0744: 5, L0758: 5, L0806: 4, H0309: 3, H0617: 3, H0549: 2, H0550: 2, H0441: 2, S0010: 2, H0046: 2, H0024: 2, H0014: 2, H0252: 2, L0774: 2, L0775: 2, L0743: 2, L0740: 2, L0752: 2, H0170: 1, H0295: 1, S0354: 1, S0360: 1, H0580: 1, H0393: 1, H0462: 1, H0392: 1, H0438: 1, H0333: 1, H0574: 1, L0021: 1, L0022: 1, H0042: 1, S0049: 1, H0544: 1, H0546: 1, H0150: 1, H0009: 1, H0123: 1, H0012: 1, S0051: 1, T0010: 1, H0510: 1, H0428: 1, T0006: 1, H0424: 1, H0553: 1, H0181: 1, H0606: 1, L0456: 1, S0366: 1, S0036: 1, H0135: 1, H0163: 1, S0438: 1, L0369: 1, L0770: 1, L0769: 1, L0794: 1, L0375: 1, L0651: 1, L0805: 1, L0653: 1, L0790: 1, L0792: 1, S0374: 1, S0126: 1, H0682: 1, H0659: 1, H0539: 1, H0696: 1, S0406: 1, L0741: 1, L0751: 1, L0747: 1, L0750: 1, L0780: 1, L0731: 1, L0757: 1, L0759: 1 and S0412: 1.		



2347	HTLBF63	762847	2357	97 - 795	4954	Ser-18 to Lys-27, Phe-31 to Trp-36, Pro-41 to Ser-48, Thr-112 to Lys-119, Leu-133 to Lys-140, Pro-155 to Leu-160, Ala-193 to Cys-206, Gln-227 to Lys-232.	AR060: 7, AR316: 6, AR089: 5 H0253: 37, H0618: 33, L0758: 6, H0038: 5, L0794: 4, L0666: 3, L0565: 2, L0750: 2, H0208: 1, S0046: 1, H0392: 1, H0486: 1, H0123: 1, H0024: 1, H0617: 1, H0616: 1, L0657: 1, L0791: 1, L0664: 1, H0670: 1, H0660: 1 and S0192: 1.	3p21.3	116806, 120120, 120120, 120120, 120436, 120436, 120436, 138320, 168468, 182280, 600163
2348	HTLCX82	847091	2358	46 - 273	4955	Glu-48 to Gly-60, Pro-68 to Trp-74.	L0803: 4, L0805: 4, L0758: 4, H0255: 2, S0422: 2, L0769: 2, L0774: 2, L0666: 2, L0665: 2, L0439: 2, L0777: 2, L0731: 2, S0042: 2, H0265: 1, H0686: 1, H0662: 1, H0156: 1, H0253: 1, H0009: 1, S0208: 1, S0214: 1, H0328: 1, H0494: 1, L0773: 1, L0766: 1, L0809: 1, L0788: 1, L0792: 1, L0663: 1, L0438: 1, H0518: 1, L0749: 1, L0779: 1, L0755: 1, H0595: 1 and H0707: 1.	22q11.21	123620, 151410, 600850
2349	HTLDD89	688059	2359	263 - 412	4956	Arg-22 to Trp-30, Ser-43 to Cys-48.	AR089: 23, AR316: 20, AR060: 17 H0253: 2 and H0616: 1.		
2350	HTLDN34	866199	2360	84 - 365	4957	Pro-75 to Ser-93.	AR089: 4, AR316: 3, AR060: 3 H0616: 4, L0794: 3, H0253: 2, L0779: 2, L0758: 2, H0618: 1, H0038: 1 and S0042: 1.		
2351	HTLDP19	885353	2361	99 - 629	4958	Gly-23 to Gln-30, Asn-57 to Ala-62, Pro-161 to Leu-168.	AR244: 14, AR055: 11, AR186: 11, AR267: 9, AR270: 9, AR204: 8, AR296: 8, AR182: 8, AR246: 8, AR269: 8, AR289: 8, AR061: 8, AR033: 7, AR052: 7, AR206: 7, AR060: 7, AR243: 7, AR185: 6,		

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2352	HTLDY30	901885	2362	115 - 141	4959			3, L0362: 3, H0014: 2, H0135: 2, H0494: 2, H0144: 2, L0438: 2, H0648: 2, S0380: 2, L0752: 2, L0753: 2, L0755: 2, L0731: 2, L0588: 2, L0605: 2, L0603: 2, S0196: 2, H0624: 1, H0171: 1, H0584: 1, H0686: 1, H0657: 1, H0341: 1, H0484: 1, H0483: 1, S0358: 1, H0637: 1, S0045: 1, S0222: 1, H0431: 1, H0632: 1, H0156: 1, H0098: 1, H0581: 1, H0234: 1, H0231: 1, H0046: 1, L0157: 1, H0123: 1, H0050: 1, H0012: 1, S0388: 1, S0025: 1, H0594: 1, H0039: 1, H0628: 1, H0606: 1, H0673: 1, H0674: 1, S0364: 1, H0124: 1, S0036: 1, H0090: 1, H0412: 1, S0144: 1, S0142: 1, S0344: 1, L0598: 1, L0769: 1, L0637: 1, L0764: 1, L0648: 1, L0662: 1, L0375: 1, L0651: 1, L0805: 1, L0776: 1, L0790: 1, L0791: 1, L0665: 1, H0519: 1, H0660: 1, H0666: 1, S0406: 1, S3012: 1, L0439: 1, L0740: 1, L0756: 1, L0581: 1, L0608: 1, L0361: 1, L0366: 1, S0192: 1, H0542: 1, H0543: 1, H0423: 1, H0506: 1 and H0352: 1.		
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2353	HTLEJ24	608317	2363	110 - 622	4960	Ala-23 to His-34,		AR206: 31, AR194: 27, 18q23		250790

[illegible]

2354	HTLEJ75	815631	2364	1559 - 1600	4961			AR219: 2 H0341: 1, S0360: 1, H0486: 1, H0618: 1, H0253: 1, H0052: 1, H0617: 1, H0494: 1, L0761: 1, L0788: 1, H0593: 1, H0684: 1, H0696: 1, L0740: 1, L0745: 1, L0747: 1 and L0755: 1.	10q24-q25	157640, 167409, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600020, 600095, 600512, 601107, 601130, 602082, 602669, 602669
2355	HTLEJ75	762849	2365	224 - 265	4962			AR089: 11, AR316: 10, AR060: 10 H0556: 9, L0747: 7, L0771: 6, H0622: 5, L0749: 5, L0741: 4, H0265: 3, H0052: 3, H0090: 3, H0038: 3, L0769: 3, H0555: 3, L0752: 3, L0758: 3, H0156: 2, H0318: 2, H0553: 2, H0412: 2, L0641: 2, L0662: 2, L0438: 2, H0519: 2, H0521: 2, L0748: 2, L0439: 2, L0754: 2, L0779: 2, L0731: 2, H0677: 2, S0134: 1, H0583: 1, S0116: 1, S0212: 1, H0393: 1, H0550: 1, H0438: 1, T0109: 1, L0021: 1, H0618: 1, H0253: 1, S0346: 1, H0581: 1, H0194: 1, L0040: 1, H0009: 1, H0050: 1, H0099: 1, H0266: 1, H0284: 1, H0428: 1, H0039: 1, H0604: 1, H0030: 1, H0031: 1, L0142: 1, H0135: 1, H0591: 1, H0616: 1, H0551: 1, H0264: 1, H0413: 1, S0142: 1, L0761: 1, L0644: 1, L0764: 1, L0765: 1, L0768: 1, L0766: 1, L0649: 1, L0776: 1, L0659: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0374: 1, H0547: 1, H0539: 1, S0176: 1, H0187: 1, H0436: 1, L0744: 1, L0750: 1, L0753: 1, L0755: 1, S0434: 1, L0603: 1, L0366: 1 and H0422: 1.	10q24-q25	157640, 167409,

2356	HTLEP55	637704	2366	133 - 591	4963			<p>AR060: 10  H0556: 9, L0747: 7, L0771:  6, H0622: 5, L0749: 5, L0741:  4, H0265: 3, H0052: 3, H0090:  3, H0038: 3, L0769: 3, H0555:  3, L0752: 3, L0758: 3, H0156:  2, H0318: 2, H0553: 2, H0412:  2, L0641: 2, L0662: 2, L0438:  2, H0519: 2, H0521: 2, L0748:  2, L0439: 2, L0754: 2, L0779:  2, L0731: 2, H0677: 2, S0134:  1, H0583: 1, S0116: 1, S0212:  1, H0393: 1, H0550: 1, H0438:  1, T0109: 1, L0021: 1, H0618:  1, H0253: 1, S0346: 1, H0581:  1, H0194: 1, L0040: 1, H0009:  1, H0050: 1, H0099: 1, H0266:  1, H0284: 1, H0428: 1, H0039:  1, H0604: 1, H0030: 1, H0031:  1, L0142: 1, H0135: 1, H0591:  1, H0616: 1, H0551: 1, H0264:  1, H0413: 1, S0142: 1, L0761:  1, L0644: 1, L0764: 1, L0765:  1, L0768: 1, L0766: 1, L0649:  1, L0776: 1, L0659: 1, L0666:  1, L0663: 1, L0664: 1, L0665:  1, S0374: 1, H0547: 1, H0539:  1, S0176: 1, H0187: 1, H0436:  1, L0744: 1, L0750: 1, L0753:  1, L0755: 1, S0434: 1, L0603:  1, L0366: 1 and H0422: 1.</p>	<p>174900, 180250,  186770, 236730,  271245, 278000,  278000, 600020,  600095, 600512,  601107, 601130,  602082, 602669,  602669</p>
2356	HTLEP55	637704	2366	133 - 591	4963	Arg-10 to Arg-18, Lys-123 to Ser-138.	<p>AR060: 4, AR316: 3,  AR089: 2  H0253: 8, H0618: 7, L0666:  3, H0656: 2, H0551: 2, L0800:  2, L0662: 2, L0794: 2, L0804:  2, L0657: 2, L0754: 2, L0756:  2, L0777: 2, H0159: 1, S0358:  1, S0045: 1, H0318: 1, H0024:  1, H0083: 1, S0038: 1, H0494:</p>	7q32	<p>180105, 190900,  222800, 246900</p>

2357	HTLEV80	866200	2367	276 - 503	4964	Ser-56 to Arg-67.	1, L0763: 1, L0521: 1, L0766: 1, L0659: 1, L0809: 1, H0519: 1, H0648: 1, S0152: 1, L0744: 1, L0751: 1, L0749: 1, L0779: 1, L0604: 1, H0423: 1 and S0398: 1. H0253: 6, H0617: 4, H0618: 3, H0050: 3, L0742: 3, S0222: 2, H0538: 2, L0439: 2, L0758: 2, H0306: 1, S0358: 1, H0261: 1, H0455: 1, H0052: 1, H0009: 1, H0242: 1, S0051: 1, S0038: 1, T0042: 1, L0659: 1, L0788: 1, L0664: 1, H0659: 1, H0648: 1, S0328: 1, L0741: 1, L0749: 1, L0601: 1 and S0424: 1.	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884
2358	HTLEZ57	634874	2368	187 - 294	4965		AR089: 15, AR316: 13, AR060: 11 L0766: 6, L0747: 3, L0803: 2, L0777: 2, H0550: 1, H0574: 1, H0486: 1, H0013: 1, H0253: 1, L0773: 1, L0805: 1, L0809: 1, L0789: 1, S0126: 1, L0740: 1 and L0779: 1.		
2359	HTLFA90	740770	2369	131 - 1075	4966	Asp-33 to Lys-41, Arg-109 to Ser-114, Val-127 to Phe-137, Glu-285 to Arg-292.	AR060: 5, AR089: 4, AR241: 4, AR316: 3, AR194: 3, AR229: 3, AR243: 2, AR251: 2, AR183: 2, AR270: 2, AR184: 1, AR290: 1, AR238: 1, AR206: 1, AR175: 1, AR277: 1, AR310: 1, AR312: 1, AR282: 1, AR052: 1 H0618: 9, H0253: 9, L0779: 5, L0794: 4, L0665: 4, L0439: 4, L0758: 4, S0358: 2, S0408: 1	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477

2360	HTLGL33	835020	2370	763 - 1287	4967	Glu-25 to Leu-34, Gln-105 to Asn-112, Ser-146 to Phe-155, Cys-161 to Ser-173.	2, H0497: 2, H0575: 2, S0474: 2, H0529: 2, L0761: 2, H0547: 2, L0740: 2, L0596: 2, H0624: 1, S0040: 1, S0212: 1, H0483: 1, H0663: 1, S0420: 1, S0442: 1, H0645: 1, S0222: 1, H0370: 1, H0415: 1, H0612: 1, H0559: 1, H0581: 1, H0544: 1, H0545: 1, H0050: 1, H0012: 1, H0620: 1, H0266: 1, H0615: 1, H0424: 1, L0055: 1, H0488: 1, H0413: 1, H0623: 1, S0210: 1, S0422: 1, H0695: 1, L0644: 1, L0767: 1, L0768: 1, L0766: 1, L0803: 1, L0804: 1, L0375: 1, L0806: 1, L0653: 1, L0658: 1, L0783: 1, L0647: 1, L0789: 1, L0438: 1, H0709: 1, S0152: 1, H0522: 1, S0028: 1, L0748: 1, L0751: 1, L0747: 1, L0777: 1, L0780: 1, L0752: 1, L0759: 1, S0031: 1, S0436: 1, H0543: 1 and S0424: 1.		
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2361	HTLGQ25	898114	2371	24 - 536	4968	Gly-67 to Lys-73, Gly-90 to Phe-100, Glu-128 to Gly-134, Tyr-143 to Lys-149, Leu-157 to Ser-166.	AR089: 18, AR316: 16, AR060: 14 L0758: 3, H0618: 1 and H0038: 1.				
2362	HTLGS72	897278	2372	363 - 620	4969		AR089: 40, AR316: 28, AR060: 18 H0618: 1				
2363	HTLGY50	839479	2373	337 - 1245	4970	Pro-78 to Arg-84, Glu-136 to Val-141, Gln-148 to Asp-154, Pro-215 to Arg-221,	AR089: 21, AR316: 18, AR060: 16 H0618: 3, L0748: 3, L0790: 2, L0749: 2, L0758: 2, H0305:				

2364	HTLHN86	896930	2374	1413 - 1976	4971	Phe-235 to Arg-245, Cys-251 to Cys-258, Lys-298 to Lys-303.	1, H0619: 1, H0586: 1, H0253: 1, L0794: 1, L0807: 1, S0052: 1, H0436: 1, L0779: 1, L0755: 1 and L0759: 1. AR281: 73, AR315: 49, AR280: 45, AR194: 38, AR205: 36, AR314: 36, AR310: 33, AR202: 32, AR283: 31, AR266: 30, AR206: 29, AR033: 29, AR039: 29, AR263: 29, AR295: 28, AR246: 28, AR213: 27, AR289: 27, AR300: 27, AR055: 27, AR265: 26, AR270: 26, AR285: 26, AR096: 26, AR247: 25, AR309: 25, AR299: 25, AR282: 25, AR053: 24, AR291: 24, AR177: 23, AR284: 23, AR277: 23, AR292: 22, AR298: 22, AR089: 22, AR244: 22, AR241: 21, AR296: 20, AR052: 20, AR269: 20, AR316: 20, AR268: 20, AR183: 20, AR251: 19, AR175: 19, AR312: 19, AR286: 18, AR238: 18, AR290: 18, AR182: 18, AR294: 18, AR232: 18, AR271: 18, AR313: 17, AR192: 17, AR243: 17, AR227: 16, AR256: 16, AR275: 16, AR231: 15, AR226: 15, AR267: 15, AR204: 15, AR293: 15, AR258: 15, AR218: 15, AR060: 14, AR234: 14, AR229: 14, AR198: 14, AR061: 14,	11p11.2-p11.12	133701, 168500, 171650, 176930, 176930, 600623, 600811, 600958
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2365	HTLHN86	838287	2375	1413 - 1976	4972		1, H0246: 1, H0014: 1, L0163: 1, H0594: 1, S6028: 1, H0266: 1, H0188: 1, H0687: 1, H0288: 1, H0033: 1, H0181: 1, S0364: 1, S0366: 1, S0036: 1, H0038: 1, H0616: 1, H0264: 1, H0268: 1, H0117: 1, S0038: 1, H0100: 1, L0351: 1, L0435: 1, T0041: 1, T0042: 1, S0448: 1, S0142: 1, S0002: 1, H0529: 1, L0796: 1, L0639: 1, L5575: 1, L5566: 1, L0761: 1, L0374: 1, L0648: 1, L0768: 1, L0649: 1, L0803: 1, L0375: 1, L0805: 1, L0776: 1, L0655: 1, L0659: 1, L0526: 1, L0783: 1, L0793: 1, H0144: 1, H0690: 1, H0660: 1, S0330: 1, H0539: 1, S0378: 1, S0152: 1, H0522: 1, H0694: 1, S0406: 1, H0555: 1, S3012: 1, S0390: 1, S3014: 1, S0028: 1, L0743: 1, L0779: 1, L0752: 1, H0444: 1, L0581: 1, H0543: 1, H0423: 1, S0458: 1 and H0506: 1.	11p11.2-pl1.12	133701, 168500, 171650, 176930, 176930, 600623, 600811, 600958
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2366	HTLHN86	843766	2376	1413 - 1976	4973		1, S3014: 1, S0028: 1, L0743: 1, L0779: 1, L0752: 1, H0444: 1, L0581: 1, H0543: 1, H0423: 1, S0458: 1 and H0506: 1. AR281: 73, AR315: 49, AR280: 45, AR194: 38, AR205: 36, AR314: 36, AR310: 33, AR202: 32, AR283: 31, AR266: 30, AR206: 29, AR033: 29, AR039: 29, AR263: 29, AR295: 28, AR246: 28, AR213: 27, AR289: 27, AR300: 27, AR055: 27, AR265: 26, AR270: 26, AR285: 26, AR096: 26, AR247: 25, AR309: 25, AR299: 25, AR282: 25, AR053: 24, AR291: 24, AR177: 23, AR284: 23, AR277: 23, AR292: 22, AR298: 22, AR089: 22, AR244: 22, AR241: 21, AR296: 20, AR052: 20, AR269: 20, AR316: 20, AR268: 20, AR183: 20, AR251: 19, AR175: 19, AR312: 19, AR286: 18, AR238: 18, AR290: 18, AR182: 18, AR294: 18, AR232: 18, AR271: 18, AR313: 17, AR192: 17, AR243: 17, AR227: 16, AR256: 16, AR275: 16, AR231: 15, AR226: 15, AR267: 15, AR204: 15, AR293: 15, AR258: 15, AR218: 15, AR060: 14, AR234: 14, AR229: 14, AR198: 14, AR061: 14,	11p11.2-pl1.12	133701, 168500, 171650, 176930, 176930, 600623, 600811, 600958
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2367	HTLHN86	883351	2377	1413 - 1976	4974		1, H0246: 1, H0014: 1, L0163: 1, H0594: 1, S6028: 1, H0266: 1, H0188: 1, H0687: 1, H0288: 1, H0033: 1, H0181: 1, S0364: 1, S0366: 1, S0036: 1, H0038: 1, H0616: 1, H0264: 1, H0268: 1, H0117: 1, S0038: 1, H0100: 1, L0351: 1, L0435: 1, T0041: 1, T0042: 1, S0448: 1, S0142: 1, S0002: 1, H0529: 1, L0796: 1, L0639: 1, L5575: 1, L5566: 1, L0761: 1, L0374: 1, L0648: 1, L0768: 1, L0649: 1, L0803: 1, L0375: 1, L0805: 1, L0776: 1, L0655: 1, L0659: 1, L0526: 1, L0783: 1, L0793: 1, H0144: 1, H0690: 1, H0660: 1, S0330: 1, H0539: 1, S0378: 1, S0152: 1, H0522: 1, H0694: 1, S0406: 1, H0555: 1, S3012: 1, S0390: 1, S3014: 1, S0028: 1, L0743: 1, L0779: 1, L0752: 1, H0444: 1, L0581: 1, H0543: 1, H0423: 1, S0458: 1 and H0506: 1.	11p11.2-p11.12	133701, 168500, 171650, 176930, 176930, 600623, 600811, 600958
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2368	HTLIW29	899417	2378	10 - 954	4975	Arg-19 to Glu-25, Thr-86 to Gly-95, Pro-128 to Tyr-136, Glu-164 to Cys-171, Lys-180 to Ser-187, Cys-244 to Leu-249, Cys-262 to Gly-269, Gly-289 to Ser-296.	I, S3014: 1, S0028: 1, L0743: I, L0779: 1, L0752: 1, H0444: I, L0581: 1, H0543: 1, H0423: I, S0458: 1 and H0506: 1. AR280: 17, AR244: 14, AR281: 13, AR314: 12, AR315: 11, AR277: 8, AR251: 7, AR198: 7, AR241: 7, AR186: 6, AR204: 6, AR202: 6, AR055: 6, AR060: 6, AR052: 5, AR206: 5, AR246: 5, AR273: 5, AR282: 5, AR243: 5, AR310: 5, AR061: 4, AR312: 4, AR033: 4, AR316: 4, AR213: 4, AR089: 4, AR313: 4, AR205: 4, AR185: 4, AR309: 4, AR253: 4, AR283: 3, AR299: 3, AR053: 3, AR269: 3, AR267: 3, AR104: 3, AR194: 3, AR096: 3, AR270: 3, AR274: 3, AR300: 3, AR182: 3, AR039: 3, AR289: 3, AR240: 2, AR227: 2, AR275: 2, AR249: 2, AR286: 2, AR292: 2, AR247: 2, AR293: 2, AR238: 2, AR295: 2, AR294: 2, AR231: 2, AR232: 2, AR234: 2, AR298: 2, AR290: 2, AR237: 2, AR175: 2, AR268: 2, AR285: 2, AR291: 1, AR183: 1, AR226: 1, AR233: 1, AR284: 1, AR271: 1,	I6p13.3	141750, 141800, 141800, 141800, 141800, 141850, 141850, 141850, 141850, 141850, 156850, 186580, 191092, 600140, 600273, 601313, 601785
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2369	HTLJC15	898235	2379	996 - 1718	4976	Pro-51 to Asp-56, Gly-95 to Thr-105, Val-132 to Ala-138, Pro-229 to Leu-240.	AR219: 1, AR296: 1, AR218: 1 L0758: 8, H0265: 2, H0038: 2, L0601: 2, S0424: 2, H0556: 1, H0618: 1, H0059: 1, S0382: 1, H0529: 1, L0374: 1, L0768: 1, L0751: 1, L0777: 1 and S0436: 1. AR275: 29, AR089: 26, AR060: 21, AR316: 19, AR186: 19, AR274: 19, AR177: 17, AR104: 17, AR243: 16, AR273: 16, AR299: 16, AR247: 16, AR271: 15, AR096: 15, AR282: 15, AR033: 15, AR238: 14, AR269: 14, AR249: 14, AR061: 14, AR240: 14, AR052: 14, AR183: 14, AR283: 13, AR055: 13, AR039: 13, AR289: 13, AR232: 13, AR234: 13, AR246: 13, AR248: 13, AR241: 12, AR185: 12, AR268: 12, AR182: 12, AR253: 11, AR175: 11, AR192: 11, AR270: 11, AR280: 11, AR314: 11, AR290: 10, AR244: 10, AR053: 10, AR313: 10, AR213: 10, AR205: 10, AR315: 9, AR266: 9, AR300: 9, AR219: 9, AR218: 9, AR198: 9, AR312: 9, AR291: 9, AR267: 8, AR229: 8, AR295: 8, AR281: 8, AR184: 8, AR231: 8, AR296: 8, AR233: 8, AR204: 8,		
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AR256:	7, AR251: 7,
AR284:	7, AR298: 7,
AR202:	7, AR263: 6,
AR237:	6, AR293: 6,
AR285:	6, AR179: 6,
AR194:	6, AR292: 6,
AR294:	6, AR206: 5,
AR259:	5, AR258: 5,
AR265:	4
H0618:	15, H0253: 7, L0747:
7, S0410:	6, L0777: 6, H0617:
5, S0474:	4, H0521: 4, L0740:
4, H0663:	3, S0360: 3, S0278:
3, H0052:	3, H0545: 3, H0622:
3, H0038:	3, L0766: 3, L0751:
3, L0757:	3, L0758: 3, H0653:
3, L0717:	2, H0318: 2, H0309:
2, H0327:	2, H0150: 2, H0687:
2, H0424:	2, H0413: 2, H0509:
2, S0142:	2, L0769: 2, L0764:
2, L0771:	2, L0662: 2, L0768:
2, L0774:	2, L0776: 2, L0666:
2, L0663:	2, S0126: 2, H0658:
2, L0744:	2, L0439: 2, L0588:
2, S0196:	2, S0342: 1, T0049:
1, H0657:	1, S0116: 1, S0282:
1, H0255:	1, H0661: 1, H0402:
1, H0638:	1, S0418: 1, S0420:
1, S0358:	1, S0444: 1, S0408:
1, S0046:	1, S0300: 1, H0592:
1, L0623:	1, H0156: 1, L0021:
1, H0581:	1, H0263: 1, L0738:
1, H0530:	1, H0046: 1, H0571:
1, H0081:	1, H0578: 1, H0083:
1, H0266:	1, H0615: 1, H0039:
1, H0604:	1, H0031: 1, H0181:
1, H0068:	1, S0036: 1, H0616:

2370	HTNAL14	886203	2380	166 - 261	4977	Leu-25 to Thr-31.	1, H0087: 1, T0004: 1, H0494: 1, S0438: 1, H0529: 1, L0763: 1, L0796: 1, L0761: 1, L0645: 1, L0773: 1, L0364: 1, L0561: 1, L0651: 1, L0653: 1, L0654: 1, L0655: 1, L0629: 1, L0657: 1, L0658: 1, H0725: 1, H0519: 1, H0682: 1, H0684: 1, H0670: 1, S0380: 1, H0518: 1, S0044: 1, S0406: 1, H0555: 1, H0436: 1, S3014: 1, L0749: 1, L0731: 1, L0759: 1, S0260: 1, H0445: 1, H0423: 1 and H0506: 1. S0212: 15, L0663: 10, L0752: 10, L0666: 8, L0775: 7, L0375: 7, L0659: 7, L0596: 7, L0662: 6, L0655: 6, S0344: 5, S0028: 5, H0580: 4, L0717: 4, L0646: 4, L0517: 4, L0384: 4, L0595: 4, H0581: 3, H0445: 3, L0608: 3, L0785: 2, S0360: 2, H0318: 2, L0471: 2, S0051: 2, L0351: 2, L0598: 2, L0369: 2, L0762: 2, L0638: 2, L0606: 2, L0657: 2, L0518: 2, L0783: 2, L0664: 2, H0436: 2, L0588: 2, L0605: 2, L0590: 2, L0591: 2, L0592: 2, L0599: 2, L0593: 2, L0362: 2, H0395: 1, H0657: 1, L0808: 1, H0341: 1, S0356: 1, S0358: 1, H0208: 1, H0486: 1, H0597: 1, H0046: 1, H0354: 1, S0334: 1, S0314: 1, S0250: 1, H0428: 1, H0032: 1, H0316: 1, S0036: 1, H0163: 1, H0551: 1, T0067: 1, H0413: 1, L0564: 1, H0560: 1, L0763: 1, L0371: 1, L0631: 1, L0769: 1, L0372: 1, L0374: 1, L0521: 1, L0651: 1, L0376: 1, L0523: 1, L0378: 1.					
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2371	HTNAL34	588414	2381	225 - 296	4978	Ser-14 to Lys-23.		1, L0776: 1, L0633: 1, L0634: 1, L0383: 1, L0519: 1, L0532: 1, S0216: 1, S0374: 1, S0380: 1, L0602: 1, H0555: 1, S0390: 1, L0751: 1, L0750: 1, L0756: 1, L0753: 1, L0757: 1, L0682: 1, L0589: 1, L0594: 1, L0361: 1, L0601: 1, L0366: 1, S0026: 1, S0242: 1, S0196: 1 and L0718: 1.		
2372	HTNB15	834872	2382	1737 - 1892	4979	Ser-31 to Lys-39.		L0775: 3, H0150: 1 and T0067: 1. H0013: 14, L0748: 13, L0752: 8, L0771: 7, L0754: 7, S0222: 6, L0766: 6, L0731: 6, H0486: 5, H0251: 5, H0616: 5, L0805: 5, L0666: 5, H0144: 5, S6028: 4, L0665: 4, L0779: 4, H0421: 3, L0471: 3, L0662: 3, L0803: 3, H0539: 3, L0745: 3, L0758: 3, H0422: 3, S0412: 3, S0300: 2, H0438: 2, H0156: 2, H0050: 2, S0003: 2, H0591: 2, H0038: 2, T0067: 2, L0784: 2, L0661: 2, L0659: 2, L0526: 2, L0789: 2, L0791: 2, L0438: 2, H0658: 2, H0648: 2, S0378: 2, L0742: 2, L0750: 2, L0590: 2, S0026: 2, T0002: 1, H0583: 1, H0661: 1, H0664: 1, S0444: 1, S0360: 1, L0717: 1, H0411: 1, H0441: 1, H0455: 1, H0587: 1, H0331: 1, H0574: 1, H0004: 1, S0010: 1, S0346: 1, H0581: 1, H0052: 1, L0157: 1, H0051: 1, S0388: 1, H0099: 1, H0266: 1, H0188: 1, H0688: 1, H0039: 1, H0553: 1, L0055: 1, H0032: 1, S0366: 1, S0036: 1, H0488: 1, H0413: 1, H0100: 1, T0042: 1,	15q11-q13	103581, 146150, 176270, 218000, 227220, 601623, 601800, 601889, 602117



2373	HTNBJ15	845783	2383	1737 - 1892	4980	Ser-31 to Lys-39.	H0494: 1, H0625: 1, H0529: 1, L0638: 1, L0800: 1, L0794: 1, L0649: 1, L0381: 1, L0804: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0607: 1, L0809: 1, L0532: 1, L0663: 1, H0519: 1, H0689: 1, H0683: 1, S0328: 1, H0518: 1, S0406: 1, H0478: 1, L0744: 1, L0439: 1, L0756: 1, S0260: 1, L0592: 1, S0192: 1, S0194: 1, H0543: 1, S0458: 1 and L0462: 1.	15q11-q13	103581, 146150, 176270, 218000, 227220, 601623, 601800, 601889, 602117
							H0013: 14, L0748: 13, L0752: 8, L0771: 7, L0754: 7, S0222: 6, L0766: 6, L0731: 6, H0486: 5, H0251: 5, H0616: 5, L0805: 5, L0666: 5, H0144: 5, S0628: 4, L0665: 4, L0779: 4, H0421: 3, L0471: 3, L0662: 3, L0803: 3, H0539: 3, L0745: 3, L0758: 3, H0422: 3, S0412: 3, S0300: 2, H0438: 2, H0156: 2, H0050: 2, S0003: 2, H0591: 2, H0038: 2, T0067: 2, L0784: 2, L0661: 2, L0659: 2, L0526: 2, L0789: 2, L0791: 2, L0438: 2, H0658: 2, H0648: 2, S0378: 2, L0742: 2, L0750: 2, L0590: 2, S0026: 2, T0002: 1, H0583: 1, H0661: 1, H0664: 1, S0444: 1, S0360: 1, L0717: 1, H0411: 1, H0441: 1, H0455: 1, H0587: 1, H0331: 1, H0574: 1, H0004: 1, S0010: 1, S0346: 1, H0581: 1, H0052: 1, L0157: 1, H0051: 1, S0388: 1, H0099: 1, H0266: 1, H0188: 1, H0688: 1, H0039: 1, H0553: 1, L0055: 1, H0032: 1, S0366: 1, S0036: 1, H0488: 1, H0413: 1, H0100: 1, T0042: 1,		

2374	HTNBJ15	853916	2384	1737 - 1892	4981	Ser-31 to Lys-39.	<p>H0494: 1, H0625: 1, H0529: 1, L0638: 1, L0800: 1, L0794: 1, L0649: 1, L0381: 1, L0804: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0607: 1, L0809: 1, L0532: 1, L0663: 1, H0519: 1, H0689: 1, H0683: 1, S0328: 1, H0518: 1, S0406: 1, H0478: 1, L0744: 1, L0439: 1, L0756: 1, S0260: 1, L0592: 1, S0192: 1, S0194: 1, H0543: 1, S0458: 1 and L0462: 1.</p> <p>H0013: 14, L0748: 13, L0752: 8, L0771: 7, L0754: 7, S0222: 6, L0766: 6, L0731: 6, H0486: 5, H0251: 5, H0616: 5, L0805: 5, L0666: 5, H0144: 5, S0628: 4, L0665: 4, L0779: 4, H0421: 3, L0471: 3, L0662: 3, L0803: 3, H0539: 3, L0745: 3, L0758: 3, H0422: 3, S0412: 3, S0300: 2, H0438: 2, H0156: 2, H0050: 2, S0003: 2, H0591: 2, H0038: 2, T0067: 2, L0784: 2, L0661: 2, L0659: 2, L0526: 2, L0789: 2, L0791: 2, L0438: 2, H0658: 2, H0648: 2, S0378: 2, L0742: 2, L0750: 2, L0590: 2, S0026: 2, T0002: 1, H0583: 1, H0661: 1, H0664: 1, S0444: 1, S0360: 1, L0717: 1, H0411: 1, H0441: 1, H0455: 1, H0587: 1, H0331: 1, H0574: 1, H0004: 1, S0010: 1, S0346: 1, H0581: 1, H0052: 1, L0157: 1, H0051: 1, S0388: 1, H0099: 1, H0266: 1, H0188: 1, H0688: 1, H0039: 1, H0553: 1, L0055: 1, H0032: 1, S0366: 1, S0036: 1, H0488: 1, H0413: 1, H0100: 1, T0042: 1.</p>		
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2375	HTNBJ15	884024	2385	1737 - 1892	4982	Ser-31 to Lys-39.	<p>H0494: 1, H0625: 1, H0529: 1, L0638: 1, L0800: 1, L0794: 1, L0649: 1, L0381: 1, L0804: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0607: 1, L0809: 1, L0532: 1, L0663: 1, H0519: 1, H0689: 1, H0683: 1, S0328: 1, H0518: 1, S0406: 1, H0478: 1, L0744: 1, L0439: 1, L0756: 1, S0260: 1, L0592: 1, S0192: 1, S0194: 1, H0543: 1, S0458: 1 and L0462: 1.</p> <p>H0013: 14, L0748: 13, L0752: 8, L0771: 7, L0754: 7, S0222: 6, L0766: 6, L0731: 6, H0486: 5, H0251: 5, H0616: 5, L0805: 5, L0666: 5, H0144: 5, S6028: 4, L0665: 4, L0779: 4, H0421: 3, L0471: 3, L0662: 3, L0803: 3, H0539: 3, L0745: 3, L0758: 3, H0422: 3, S0412: 3, S0300: 2, H0438: 2, H0156: 2, H0050: 2, S0003: 2, H0591: 2, H0038: 2, T0067: 2, L0784: 2, L0661: 2, L0659: 2, L0526: 2, L0789: 2, L0791: 2, L0438: 2, H0658: 2, H0648: 2, S0378: 2, L0742: 2, L0750: 2, L0590: 2, S0026: 2, T0002: 1, H0583: 1, H0661: 1, H0664: 1, S0444: 1, S0360: 1, L0717: 1, H0411: 1, H0441: 1, H0455: 1, H0587: 1, H0331: 1, H0574: 1, H0004: 1, S0010: 1, S0346: 1, H0581: 1, H0052: 1, L0157: 1, H0051: 1, S0388: 1, H0099: 1, H0266: 1, H0188: 1, H0688: 1, H0039: 1, H0553: 1, L0055: 1, H0032: 1, S0366: 1, S0036: 1, H0488: 1, H0413: 1, H0100: 1, T0042: 1.</p>	15q11-q13	103581, 146150, 176270, 218000, 227220, 601623, 601800, 601889, 602117
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2376	HTOAC65	791689	2386	551 - 637	4983	Pro-6 to Gly-12.	H0494: 1, H0625: 1, H0529: 1, L0638: 1, L0800: 1, L0794: 1, L0649: 1, L0381: 1, L0804: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0607: 1, L0809: 1, L0532: 1, L0663: 1, H0519: 1, H0689: 1, H0683: 1, S0328: 1, H0518: 1, S0406: 1, H0478: 1, L0744: 1, L0439: 1, L0756: 1, S0260: 1, L0592: 1, S0192: 1, S0194: 1, H0543: 1, S0458: 1 and L0462: 1.		
2377	HTOAE47	863188	2387	138 - 185	4984		L0766: 3, H0556: 2, H0264: 2 and H0255: 1.		
2378	HTOAK03	581103	2388	64 - 219	4985	Cys-27 to Gln-33, Ser-36 to Phe-43.	H0265: 1, H0402: 1 and H0264: 1.		
2379	HTOAO58	855972	2389	157 - 261	4986		L0471: 2, H0622: 2, H0264: 2, L0803: 2, H0542: 2, H0411: 1, H0052: 1, T0010: 1, L0641: 1, L0643: 1, L0374: 1, L0662: 1, L0794: 1, L0766: 1, L0804: 1, L0523: 1, L0805: 1, L0655: 1, L0606: 1, L0791: 1, H0547: 1, H0519: 1 and H0689: 1. H0264: 1 and L0666: 1.	Xq26	300037, 300076, 300123, 301201, 301845, 301900, 304340, 307150, 307700, 308000, 308000, 308230, 309555, 310490, 312000, 313350, 313850
2380	HTOAT56	702026	2390	85 - 441	4987	Asn-36 to Tyr-44, Thr-107 to Trp-113.	AR212: 44, AR235: 37, AR291: 36, AR295: 36, AR196: 34, AR266: 34, AR240: 31, AR213: 31, AR200: 30, AR285: 30, AR261: 29, AR236: 28,	17qter	

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2381	HTOBG07	566862	2391	1123 - 1137	4988			L0593: 1, S0194: 1, H0542: 1, S0424: 1 and H0506: 1.		
								AR251: 13, AR313: 11, AR309: 11, AR312: 10, AR053: 9, AR310: 9, AR274: 9, AR229: 9, AR052: 9, AR273: 8, AR186: 8, AR270: 7, AR269: 7, AR213: 7, AR266: 7, AR267: 7, AR296: 7, AR253: 7, AR184: 7, AR061: 6, AR060: 6, AR291: 6, AR265: 6, AR271: 6, AR182: 6, AR237: 6, AR248: 6, AR247: 6, AR238: 6, AR089: 6, AR283: 6, AR290: 6, AR263: 6, AR289: 6, AR185: 6, AR316: 6, AR183: 6, AR055: 6, AR268: 6, AR282: 5, AR244: 5, AR096: 5, AR299: 5, AR285: 5, AR243: 5, AR286: 5, AR292: 5, AR300: 5, AR298: 4, AR284: 4, AR198: 4, AR202: 4, AR033: 4, AR204: 4, AR293: 4, AR277: 4, AR275: 4, AR175: 4, AR206: 4, AR241: 4, AR240: 4, AR295: 4, AR294: 3, AR234: 3, AR192: 3, AR231: 3, AR233: 3, AR039: 3, AR249: 3, AR218: 3, AR177: 3, AR246: 3, AR104: 3, AR256: 3, AR226: 3, AR227: 2		



2382	HTOBG62	56830	2392	90 - 200	4989		AR219: 2, AR205: 2, AR259: 2, AR232: 2, AR258: 2, AR179: 2, AR314: 1 T0040: 1, H0272: 1, S0028: 1 and L0366: 1.			
2383	HTODA92	849216	2393	1525 - 1713	4990	Ala-13 to Asp-18.	AR089: 24, AR316: 18, AR060: 12 H0556: 1, H0272: 1 and H0444: 1.			
							AR089: 16, AR316: 12, AR060: 8 S0358: 8, L0803: 8, L0439: 8, L0766: 7, L0754: 5, L0777: 5, L0731: 5, L0794: 4, L0745: 4, L0750: 4, H0373: 3, S0422: 3, L0804: 3, L0747: 3, L0752: 3, S0360: 2, S0007: 2, H0331: 2, H0318: 2, S0003: 2, H0688: 2, H0428: 2, H0264: 2, H0529: 2, L0771: 2, L0775: 2, L0783: 2, L0541: 2, L0438: 2, H0547: 2, S0328: 2, S0330: 2, H0521: 2, H0696: 2, S0404: 2, L0751: 2, L0755: 2, L0596: 2, H0542: 2, H0170: 1, H0171: 1, T0002: 1, H0657: 1, S0442: 1, S0354: 1, S0444: 1, H0675: 1, S0408: 1, H0586: 1, L0021: 1, H0575: 1, H0036: 1, H0123: 1, L0471: 1, S0388: 1, H0375: 1, S6028: 1, H0179: 1, H0271: 1, H0252: 1, H0615: 1, L0142: 1, L0055: 1, H0032: 1, H0212: 1, H0316: 1, T0067: 1, H0509: 1, H0646: 1, L0520: 1, L0770: 1, L0772: 1, L0662: 1, L0768: 1, L0774: 1, L0805: 1, L0776: 1, L0634: 1, L0659: 1, L0526: 1, L0809: 1, L0529: 1, L0647: 1, L0790:			

2384	HTODN35	570901	2394	67 - 111	4991			1, L0666: 1, L0663: 1, L0665: 1, S0374: 1, H0520: 1, H0519: 1, H0689: 1, H0690: 1, H0658: 1, H0672: 1, H0539: 1, S0406: 1, L0740: 1, L0756: 1, L0759: 1, H0444: 1, H0445: 1, S0308: 1, H0343: 1, L0485: 1, L0608: 1, S0242: 1, H0543: 1, H0423: 1 and H0506: 1.		
2385	HTODO45	823125	2395	502 - 552	4992			AR060: 10, AR316: 10, AR089: 9		
2386	HTOEA53	842764	2396	56 - 151	4993			H0264: 1		
2387	HTOEB55	665897	2397	139 - 198	4994		Ser-13 to Gly-18.	H0264: 1 H0598: 1, H0264: 1, L0367: 1 and H0555: 1.	14q24	107970, 115650, 182600, 602091
2388	HTOEB76	688060	2398	325 - 345	4995			L0747: 5, L0731: 4, L0750: 3, H0392: 2, L0519: 2, S0452: 2, S0360: 1, S0007: 1, H0574: 1, L0021: 1, H0575: 1, H0123: 1, H0024: 1, H0598: 1, H0163: 1, H0090: 1, H0264: 1, H0272: 1, L0475: 1, L0763: 1, L0533: 1, L0526: 1, L0438: 1 and L0754: 1.		
2389	HTOET03	845230	2399	518 - 592	4996			AR089: 19, AR316: 16, AR060: 13 L0805: 3, H0436: 2, H0264: 1, L0766: 1, L0793: 1 and H0547: 1.		
								H0556: 18, L0766: 4, H0265: 3, H0040: 3, L0764: 3, L0803: 3, L0748: 3, L0439: 3, L0747: 3, L0758: 3, H0141: 2, H0585: 2, H0619: 2, H0581: 2, H0634: 2, L0770: 2, L0800: 2, L0771: 2, S0332: 2, L0750: 2, L0595: 2, H0657: 1, S0418: 1, S0046: 1, H0393: 1, H0357: 1, H0156: 1, H0042: 1, H0575: 1, S0010: 1.		

2390	HTOET03	837213	2400	518 - 592	4997				1, T0048: 1, S0182: 1, H0251: 1, H0086: 1, H0012: 1, H0083: 1, H0266: 1, H0606: 1, H0087: 1, H0264: 1, S0038: 1, H0561: 1, S0208: 1, S0426: 1, L0369: 1, L0372: 1, L0646: 1, L0648: 1, L0364: 1, L0794: 1, L0804: 1, L0774: 1, L0378: 1, L0807: 1, L0658: 1, L0526: 1, L0666: 1, L0663: 1, L0665: 1, H0435: 1, H0659: 1, H0214: 1, S0028: 1, L0751: 1, L0757: 1, L0759: 1 and H0422: 1. H0556: 18, L0766: 4, H0265: 3, H0040: 3, L0764: 3, L0803: 3, L0748: 3, L0439: 3, L0747: 3, L0758: 3, H0141: 2, H0585: 2, H0619: 2, H0581: 2, H0634: 2, L0770: 2, L0800: 2, L0771: 2, S0332: 2, L0750: 2, L0595: 2, H0657: 1, S0418: 1, S0046: 1, H0393: 1, H0357: 1, H0156: 1, H0042: 1, H0575: 1, S0010: 1, T0048: 1, S0182: 1, H0251: 1, H0086: 1, H0012: 1, H0083: 1, H0266: 1, H0606: 1, H0087: 1, H0264: 1, S0038: 1, H0561: 1, S0208: 1, S0426: 1, L0369: 1, L0372: 1, L0646: 1, L0648: 1, L0364: 1, L0794: 1, L0804: 1, L0774: 1, L0378: 1, L0807: 1, L0658: 1, L0526: 1, L0666: 1, L0663: 1, L0665: 1, H0435: 1, H0659: 1, H0214: 1, S0028: 1, L0751: 1, L0757: 1, L0759: 1 and H0422: 1.		
2391	HTOEV01	634653	2401	194 - 334	4998	Asn-1 to Gly-6.			AR241: 9, AR192: 7, AR198: 7, AR194: 7, AR204: 7, AR186: 6, AR282: 6, AR275: 6,		

2392	HTOFA11	637719	2402	99 - 230	4999	Lys-32 to Lys-40.	AR205: 6, AR313: 6, AR251: 6, AR243: 6, AR271: 6, AR246: 6, AR185: 5, AR060: 5, AR247: 5, AR089: 5, AR244: 5, AR274: 5, AR273: 5, AR229: 5, AR104: 5, AR039: 5, AR226: 5, AR055: 5, AR312: 5, AR316: 5, AR061: 5, AR263: 5, AR233: 4, AR202: 4, AR227: 4, AR293: 4, AR206: 4, AR238: 4, AR096: 4, AR299: 4, AR295: 4, AR053: 4, AR052: 4, AR240: 4, AR310: 4, AR033: 4, AR253: 3, AR237: 3, AR309: 3, AR294: 3, AR231: 3, AR232: 3, AR292: 3, AR177: 3, AR183: 3, AR213: 3, AR266: 3, AR277: 3, AR234: 3, AR283: 3, AR300: 3, AR175: 3, AR249: 3, AR270: 3, AR269: 3, AR259: 2, AR219: 2, AR218: 2, AR182: 2, AR179: 2, AR267: 2, AR184: 2, AR248: 2, AR286: 2, AR258: 2, AR296: 2, AR315: 1, AR256: 1, AR268: 1, AR284: 1, AR298: 1, AR289: 1, AR285: 1 L0749: 2, L0483: 1, H0264: 1 and S0044: 1.	6p21.3	106300, 108800,
						AR089: 76, AR316: 56,			

2393	HTOFC33	824604	2403	159 - 230	5000			AR060: 37 H0521: 55, H0580: 17, H0522: 17, H0638: 8, H0486: 6, H0090: 6, H0583: 5, S0358: 5, H0445: 5, S0442: 4, H0591: 4, H0050: 3, H0634: 3, H0264: 3, H0648: 3, L0599: 3, H0657: 2, H0656: 2, H0125: 2, S0408: 2, H0586: 2, H0069: 2, H0635: 2, H0086: 2, H0561: 2, L0748: 2, L0745: 2, S0434: 2, H0556: 1, H0619: 1, H0393: 1, H0592: 1, H0574: 1, H0250: 1, H0575: 1, H0004: 1, H0318: 1, H0581: 1, H0421: 1, H0242: 1, H0109: 1, H0252: 1, T0023: 1, H0673: 1, H0063: 1, H0488: 1, S0440: 1, H0641: 1, H0647: 1, H0646: 1, S0002: 1, S0426: 1, L0768: 1, L0649: 1, L0659: 1, H0702: 1, H0670: 1, H0539: 1, H0709: 1, H0518: 1, S0146: 1, H0134: 1, L0744: 1, L0754: 1, L0755: 1, S0260: 1 and H0677: 1.	120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
2394	HTOGB79	762835	2404	138 - 260	5001			H0264: 1 AR089: 7, AR316: 5, AR060: 4 S0010: 1, H0024: 1, H0264: 1, S0464: 1, L0763: 1, L0650: 1, L0791: 1, L0665: 1, H0684: 1, L0759: 1 and H0422: 1.	
2395	HTOHE22	821698	2405	358 - 402	5002			H0264: 1	
2396	HTOHG63	834832	2406	922 - 1035	5003	Met-1 to Ala-6.		AR060: 2, AR316: 2, AR089: 2	
2397	HTOHJ93	762836	2407	86 - 133	5004			H0264: 1	
2398	HTOHM12	740771	2408	100 - 195	5005			L0520: 3, H0052: 1 and H0445: 1.	
2399	HTOHM82	732366	2409	26 - 241	5006			S0376: 1, H0264: 1, L0646:	

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									1, S0216: 1, S0152: 1, H0555: 1, L0759: 1 and H0667: 1.			
2400	HTOHN40	843372	2410	50 - 154	5007				H0123: 1 and H0264: 1.			
2401	HTOHR59	762850	2411	110 - 223	5008				S0356: 1, S0222: 1, H0264: 1 and L0558: 1.			
2402	HTOHS29	722256	2412	275 - 319	5009				AR060: 9, AR316: 9, AR089: 9 H0024: 3, L0764: 3, L0766: 2, L0758: 2, H0657: 1, S0045: 1, T0039: 1, H0318: 1, H0123: 1, T0067: 1, H0264: 1, L0771: 1, L0775: 1, L0659: 1, L0647: 1, S0378: 1, H0479: 1, L0748: 1, L0749: 1, L0779: 1, L0777: 1, L0780: 1, L0759: 1, L0608: 1 and S0452: 1.			
2403	HTOID65	636069	2413	56 - 166	5010				AR089: 19, AR060: 12, AR316: 11, AR176: 2, AR243: 2, AR252: 2, AR261: 2, AR171: 2, AR204: 2, AR172: 2, AR195: 2, AR291: 2, AR283: 2, AR262: 2, AR277: 1, AR181: 1, AR263: 1, AR313: 1, AR296: 1, AR232: 1, AR299: 1, AR193: 1, AR257: 1 L0769: 6, S0046: 2, H0213: 2, L0662: 2, L0657: 2, L0809: 2, L0439: 2, L0747: 2, L0731: 2, L0758: 2, S0434: 2, S0418: 1, H0619: 1, H0645: 1, H0441: 1, H0486: 1, H0544: 1, H0545: 1, H0046: 1, H0123: 1, H0428: 1, H0135: 1, H0264: 1, H0100: 1, T0041: 1, H0494: 1, S0002: 1, L0372: 1, L0771: 1, L0767: 1, L0665: 1, H0144: 1, H0547: 1, S0350: 1, L0748: 1, L0750: 1			

								1, L0779: 1, S0436: 1 and S0242: 1.		
2404	HTOIE17	688061	2414	99 - 206	5011			H0264: 1, L0523: 1, H0555: 1, L0748: 1 and H0445: 1.		
2405	HTOIG16	845999	2415	160 - 231	5012			H0264: 1 and S0152: 1.		
2406	HTOIH39	839245	2416	215 - 307	5013			H0264: 1		
2407	HTOIH51	843408	2417	296 - 439	5014		Ile-20 to Asn-26. Glu-27 to Gly-35.	S0114: 1, H0264: 1, L0526: 1 and L0664: 1.		
2408	HTOJB02	600376	2418	107 - 511	5015		Gly-2 to Ser-12, Arg-58 to Gly-63, Thr-81 to Gln-87, Ala-98 to Lys-103.	H0271: 2, S0134: 1 and H0264: 1.		
2409	HTOJI26	821702	2419	1034 - 1180	5016			L0517: 2, L0748: 2, S0040: 1, S0114: 1, S0354: 1, H0264: 1, H0538: 1 and H0444: 1.		
2410	HTOJP25	853623	2420	268 - 369	5017			H0656: 1 and H0264: 1.		
2411	HTOJS23	737735	2421	130 - 291	5018		Val-31 to Arg-36.	H0305: 4, H0255: 2, L0766: 2, H0580: 1, H0264: 1, L0779: 1 and H0445: 1.		
2412	HTOJY56	664504	2422	244 - 345	5019			L0766: 12, L0769: 7, H0547: 7, L0748: 7, L0740: 6, L0747: 5, L0779: 5, L0731: 5, S0418: 4, S0376: 4, H0009: 4, L0776: 4, L0809: 4, L0438: 4, H0539: 4, L0751: 4, L0750: 4, L0756: 4, L0757: 4, L0593: 4, H0556: 3, S0444: 3, H0550: 3, H0052: 3, H0494: 3, L0774: 3, L0666: 3, S0330: 3, H0555: 3, L0596: 3, H0657: 2, S0358: 2, H0549: 2, S0222: 2, H0587: 2, N0006: 2, L0471: 2, H0510: 2, H0628: 2, H0135: 2, H0591: 2, H0264: 2, H0413: 2, S0372: 2, L0639: 2, L0764: 2, L0803: 2, L0783: 2, H0144: 2, H0519: 2, H0521: 2, S0312: 2, L0752: 2, L0587: 2, L0588: 2, L0605: 2, L0591: 2, H0352: 2, H0294: 1, S0134: 1.		

2413	HTOJZ18	844388	2423	234 - 335	5020			1, H0656: 1, H0341: 1, H0638: 1, H0125: 1, S0420: 1, S0408: 1, H0580: 1, H0208: 1, H0645: 1, H0406: 1, H0369: 1, H0431: 1, H0586: 1, H0497: 1, L0622: 1, H0013: 1, S0280: 1, H0156: 1, L0021: 1, T0082: 1, H0590: 1, H0618: 1, H0705: 1, H0318: 1, S0049: 1, H0196: 1, H0085: 1, H0327: 1, H0544: 1, H0041: 1, H0178: 1, H0620: 1, H0014: 1, S0051: 1, L0171: 1, H0292: 1, H0252: 1, L0142: 1, H0708: 1, S0366: 1, S0036: 1, H0551: 1, T0067: 1, L0564: 1, T0041: 1, H0280: 1, H0646: 1, L0369: 1, L0502: 1, L0770: 1, L0637: 1, L0667: 1, L0772: 1, L0372: 1, L0646: 1, L0800: 1, L0771: 1, L0773: 1, L0662: 1, L0767: 1, L0768: 1, L0794: 1, L0804: 1, L0650: 1, L0775: 1, L0375: 1, L0653: 1, L0655: 1, L0629: 1, L0659: 1, L0647: 1, L0790: 1, L0664: 1, L0665: 1, H0365: 1, H0711: 1, H0435: 1, H0658: 1, H0672: 1, S0380: 1, S0152: 1, S0332: 1, S0406: 1, H0631: 1, L0611: 1, S0037: 1, S3014: 1, L0749: 1, L0777: 1, L0755: 1, L0759: 1, L0592: 1, L0485: 1, L0599: 1, L0366: 1, H0136: 1, S0194: 1 and H0422: 1.		
2413	HTOJZ18	844388	2423	234 - 335	5020			L0749: 3, L0748: 2, L0591: 2, H0264: 1 and L0605: 1.		
2414	HTPCG10	746488	2424	145 - 306	5021	Ser-34 to Thr-40.		AR060: 10, AR316: 7, AR089: 4 L0747: 6, H0046: 5, L0749: 5, L0777: 5, L0752: 4, L0438: 3, L0731: 3, S0360: 2, H0031: 1	1	



									2, H0144: 2, L0745: 2, L0779: 2, L0758: 2, L0759: 2, H0445: 2, L0599: 2, S0196: 2, H0170: 1, H0171: 1, H0381: 1, S0116: 1, H0638: 1, S0007: 1, L0717: 1, H0013: 1, H0036: 1, S0010: 1, H0318: 1, H0052: 1, H0597: 1, H0569: 1, L0471: 1, H0012: 1, H0024: 1, S0051: 1, T0010: 1, H0375: 1, S0214: 1, H0328: 1, H0039: 1, H0622: 1, L0142: 1, L0143: 1, H0163: 1, H0090: 1, H0591: 1, H0038: 1, H0264: 1, L0770: 1, L0769: 1, L0638: 1, L0639: 1, L0646: 1, L0764: 1, L0771: 1, L0768: 1, L0794: 1, L0776: 1, L0655: 1, L0606: 1, L0809: 1, L0666: 1, H0670: 1, H0648: 1, H0710: 1, H0521: 1, H0555: 1, L0743: 1, L0757: 1, H0595: 1, S0434: 1 and H0506: 1.				
2415	HTPC075	853645	2425	73 - 195	5022				AR089: 9, AR316: 9, AR060: 8 H0039: 5, L0756: 5, S0448: 3, L0759: 3, H0265: 2, S0354: 2, L0471: 2, H0674: 2, L0805: 2, L0517: 2, L0666: 2, L0779: 2, L0777: 2, L0758: 2, H0170: 1, H0556: 1, S0342: 1, S0134: 1, H0637: 1, H0599: 1, H0318: 1, H0263: 1, H0596: 1, H0252: 1, H0428: 1, H0673: 1, H0040: 1, H0264: 1, H0268: 1, H0538: 1, S0422: 1, L0764: 1, L0768: 1, L0794: 1, L0766: 1, L0804: 1, L0774: 1, L0652: 1, L0527: 1, L0809: 1, L0519: 1, L0791: 1, H0144: 1, H0520: 1, H0519: 1, H0689: 1, H0648: 1, S0028: 1.				

2416	HTPCW21	737839	2426	171 - 353	5023				1, L0439: 1, L0731: 1, H0444: 1, H0445: 1, S0026: 1, S0242: 1 and H0543: 1.		
2417	HTPDD68	590530	2427	509 - 604	5024				S0380: 2, H0052: 1, H0039: 1 and H0478: 1. L0794: 14, L0766: 12, L0439: 9, H0547: 7, H0520: 6, H0435: 5, L0664: 4, L0756: 4, S0376: 3, H0251: 3, H0529: 3, L0659: 3, L0755: 3, S0026: 3, H0657: 2, S0418: 2, L0646: 2, L0768: 2, L0789: 2, H0519: 2, H0672: 2, H0555: 2, L0754: 2, L0747: 2, L0779: 2, L0777: 2, L0731: 2, L0759: 2, L0589: 2, L0581: 2, L0608: 2, L0593: 2, H0542: 2, H0423: 2, H0422: 2, T0002: 1, S0040: 1, H0650: 1, H0662: 1, S0420: 1, S0444: 1, H0580: 1, H0229: 1, L0717: 1, H0497: 1, H0486: 1, H0244: 1, H0318: 1, H0581: 1, H0596: 1, L0041: 1, H0009: 1, L0471: 1, H0266: 1, S0214: 1, H0252: 1, H0039: 1, L0055: 1, S0036: 1, H0090: 1, H0412: 1, H0623: 1, H0059: 1, S0038: 1, H0494: 1, S0150: 1, L0637: 1, L0641: 1, L0764: 1, L0771: 1, L0803: 1, L0804: 1, L0775: 1, L0375: 1, L0657: 1, L0518: 1, L0809: 1, L0666: 1, H0144: 1, H0701: 1, H0711: 1, H0659: 1, H0670: 1, H0660: 1, H0648: 1, L0602: 1, S0028: 1, L0744: 1, L0748: 1, L0780: 1, L0591: 1, L0594: 1, L0366: 1 and H0665: 1.	12q14	123829, 147570, 181430, 252940, 264700, 600808, 601284, 601769, 601769, 602116
2418	HTPDV75	608143	2428	240 - 383	5025			Glu-20 to Arg-27.	H0039: 1, H0673: 1 and L0766: 1.		
2419	HTSER28	846644	2429	153 - 194	5026				AR089: 4, AR316: 4,	1pter-q31.3	

2420	HTSET62	833692	2430	1147 - 1200	5027			AR060: 4 L0804: 2, L0750: 2, L0752: 2, S0420: 1, S0408: 1, L0717: 1, H0632: 1, H0599: 1, L0471: 1, H0169: 1, H0087: 1, H0264: 1, H0100: 1, T0042: 1, L0770: 1, L0769: 1, L0764: 1, L0794: 1, L0649: 1, L0803: 1, L0775: 1, L0792: 1, H0696: 1, L0748: 1 and L0779: 1. L0769: 8, L0743: 8, H0031: 4, L0748: 4, L0747: 4, H0619: 3, H0144: 3, S0360: 2, H0575: 2, L0794: 2, L0789: 2, L0744: 2, L0757: 2, L0599: 2, L0604: 2, S0040: 1, S0212: 1, H0333: 1, L0021: 1, S0314: 1, H0087: 1, H0100: 1, S0039: 1, L0763: 1, L0654: 1, L0807: 1, L0809: 1, L0791: 1, H0520: 1, H0593: 1, H0672: 1, H0696: 1, L0740: 1, L0779: 1, L0777: 1, L0731: 1 and L0758: 1.	2		
2421	HTSFV18	609939	2431	134 - 286	5028	Cys-7 to Ser-16, Pro-33 to Arg-50.		19q13.1	164731, 172400, 172400, 180901, 180901, 221770, 248600, 600918, 602716		

2422	HTSGO13	789723	2432	699 - 848	5029	His-11 to Gln-16, Asp-26 to Tyr-33.	L0439: 1, S0031: 1, L0605: 1 and L0361: 1. AR060: 8, AR316: 8, AR089: 8 H0620: 2, H0617: 2, H0087: 2, L0439: 2, H0254: 1, S0442: 1, S0278: 1, L0622: 1, H0012: 1, S0388: 1, H0674: 1, H0163: 1, L0639: 1, L0645: 1, L0659: 1, L0519: 1, H0521: 1, S014: 1, L0747: 1, L0366: 1 and H0543: 1.	15q11.2-q21.3	103581, 109700, 146150, 151670, 203200, 203200, 227220, 601623, 601780, 601800, 601889, 602117
2423	HTSGO88	634834	2433	249 - 314	5030		AR089: 48, AR316: 35, AR060: 22 H0087: 1		
2424	HTTAH05	772560	2434	39 - 146	5031		H0040: 1 and L0766: 1.		
2425	HTTAP37	738417	2435	104 - 241	5032		H0591: 2, L0779: 2, H0580: 1, L0586: 1, H0212: 1, H0040: 1, S0422: 1, L0768: 1, L0649: 1, L0663: 1, H0520: 1, H0547: 1, H0689: 1, H0659: 1, H0648: 1, L0748: 1, L0747: 1, L0749: 1, L0758: 1, H0668: 1 and S0026: 1.		
2426	HTTB138	863131	2436	585 - 632	5033		AR221: 5, AR225: 5, AR269: 5, AR215: 5, AR313: 4, AR169: 4, AR162: 4, AR161: 4, AR163: 4, AR217: 4, AR274: 4, AR270: 3, AR176: 3, AR268: 3, AR183: 3, AR181: 3, AR224: 3, AR257: 3, AR182: 3, AR173: 3, AR216: 2, AR243: 2, AR165: 2, AR272: 2, AR178: 2, AR300: 2, AR238: 2, AR309: 2, AR164: 2, AR171: 2,		

2427	HTTDB11	638132	2437	130 - 243	5034	Asn-32 to Glu-37.	AR229: 2, AR291: 2, AR255: 2, AR299: 2, AR247: 2, AR096: 2, AR213: 2, AR089: 2, AR226: 2, AR228: 2, AR277: 2, AR261: 2, AR237: 2, AR234: 2, AR239: 2, AR282: 2, AR267: 2, AR189: 2, AR231: 2, AR296: 2, AR312: 2, AR233: 2, AR316: 2, AR240: 2, AR203: 2, AR190: 2, AR166: 2, AR168: 2, AR200: 1, AR061: 1, AR033: 1, AR290: 1, AR172: 1, AR242: 1, AR288: 1, AR179: 1, AR264: 1, AR177: 1, AR060: 1, AR285: 1, AR170: 1, AR311: 1, AR230: 1, AR293: 1, AR193: 1, AR250: 1, AR258: 1, AR262: 1, AR174: 1, AR235: 1 L0766: 3, H0580: 2, H0581: 2, L0665: 2, L0744: 2, L0002: 1, L0808: 1, S0046: 1, H0392: 1, H0331: 1, H0575: 1, H0457: 1, H0553: 1, H0674: 1, H0598: 1, H0040: 1, H0551: 1, H0413: 1, S0002: 1, H0529: 1, L0803: 1, L0529: 1, L0530: 1, L0666: 1, H0436: 1, S3014: 1, L0742: 1, L0740: 1, L0750: 1, L0777: 1, L0755: 1, L0757: 1, H0445: 1, S0436: 1, L0592: 1, H0543: 1 and S0456: 1. L0758: 11, S0126: 10, H0170: 6, L0747: 6, H0594: 5,		
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						S0444: 4, S0045: 4, H0673: 4, S0440: 4, L0769: 4, L0517: 4, H0144: 4, S0374: 4, L0757: 4, L0588: 4, S0218: 3, H0657: 3, S0116: 3, S0358: 3, S0360: 3, S0474: 3, L0471: 3, H0641: 3, S0144: 3, L0776: 3, L0519: 3, H0658: 3, H0696: 3, L0751: 3, L0759: 3, S0192: 3, H0542: 3, H0686: 2, S0040: 2, S0114: 2, T0049: 2, H0341: 2, H0192: 2, S0046: 2, S0132: 2, H0013: 2, H0123: 2, H0015: 2, H0428: 2, T0006: 2, H0617: 2, T0041: 2, S0344: 2, L0762: 2, L0764: 2, L0521: 2, L0775: 2, L0783: 2, H0689: 2, H0576: 2, S0114: 2, S0027: 2, L0748: 2, L0750: 2, L0752: 2, L0731: 2, H0423: 2, H0352: 2, H0171: 1, H0556: 1, H0713: 1, H0295: 1, H0656: 1, L0808: 1, S0282: 1, H0255: 1, H0661: 1, S0420: 1, L0005: 1, S0408: 1, H0580: 1, S0007: 1, S0476: 1, H0393: 1, H0411: 1, S0278: 1, H0431: 1, H0574: 1, L0623: 1, T0039: 1, T0060: 1, L0021: 1, H0108: 1, H0575: 1, S0010: 1, T0048: 1, H0318: 1, H0581: 1, H0251: 1, H0205: 1, H0204: 1, H0597: 1, H0546: 1, H0545: 1, H0081: 1, T0003: 1, H0373: 1, L0163: 1, H0051: 1, S0051: 1, H0252: 1, H0039: 1, H0622: 1, H0674: 1, H0708: 1, H0316: 1, H0598: 1, H0163: 1, H0040: 1, H0087: 1, H0412: 1, H0059: 1, H0494: 1, S0372: 1, S0438: 1, H0509: 1, H0646: 1, S0142: 1, S0210: 1, S0422: 1,
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Figure 1 displays 12 histograms arranged in a 6x2 grid, showing the distribution of the number of non-zero elements in the rows of the matrix  $A$  (left column) and the matrix  $A^T$  (right column). The x-axis for all histograms is 'Number of non-zero elements' (ranging from 0 to 10), and the y-axis is 'Frequency' (ranging from 0 to 10). The distributions are roughly bell-shaped, centered around 5-6 non-zero elements.

						L0770: 1, L0772: 1, L0662: 1, L0768: 1, L0550: 1, L0774: 1, L0651: 1, L0379: 1, L0518: 1, L4501: 1, L0666: 1, L0665: 1, S0053: 1, H0520: 1, H0690: 1, H0670: 1, H0648: 1, S0378: 1, H0521: 1, H0522: 1, H0187: 1, H0436: 1, S0392: 1, L0756: 1, L0755: 1, H0595: 1, L0590: 1, H0667: 1, H0136: 1, H0543: 1, H0422: 1 and H0721: 1.			
2428	HTTDG27	608318	2438	277 - 576	5035	AR251: 15, AR309: 12, AR310: 9, AR052: 9, AR312: 9, AR053: 7, AR313: 7, AR265: 7, AR204: 7, AR249: 6, AR213: 6, AR060: 6, AR253: 6, AR089: 5, AR273: 5, AR061: 5, AR055: 5, AR282: 5, AR244: 5, AR274: 5, AR243: 5, AR283: 5, AR248: 5, AR247: 4, AR186: 4, AR185: 4, AR263: 4, AR299: 4, AR316: 4, AR096: 4, AR295: 4, AR275: 3, AR202: 3, AR300: 3, AR277: 3, AR033: 3, AR293: 3, AR240: 3, AR271: 3, AR233: 3, AR292: 3, AR104: 3, AR205: 3, AR184: 3, AR206: 3, AR270: 2, AR294: 2, AR238: 2, AR267: 2, AR266: 2, AR231: 2, AR246: 2, AR226: 2, AR177: 2, AR237: 2, AR175: 2, AR298: 2, AR234: 2,			

2429	HTTDN24	766485	2439	1024 - 1728	5036	Asp-194 to Leu-199, Ile-206 to Pro-211, Glu-224 to Ser-229.	AR296: 2, AR259: 2, AR183: 2, AR290: 2, AR218: 2, AR219: 1, AR039: 1, AR256: 1, AR227: 1, AR289: 1, AR286: 1, AR291: 1, AR268: 1, AR258: 1 L0598: 2 and H0040: 1.	19q13.4	134790, 191044, 600040, 600138
2430	HTTDO33	899418	2440	22 - 756	5037	Thr-84 to Pro-90, Lys-144 to Arg-149, Ile-151 to Gln-159, Ser-188 to Asn-198.	L0748: 10, L0750: 6, H0181: 5, H0265: 4, S0007: 4, H0545: 4, H0542: 4, H0543: 4, H0657: 3, H0662: 3, S0474: 3, H0135: 3, H0040: 3, H0087: 3, H0494: 3, S0142: 3, L0764: 3, S0126: 3, L0751: 3, L0754: 3, L0731: 3, L0757: 3, L0758: 3, H0638: 2, H0441: 2, H0618: 2, H0581: 2, S0049: 2, H0086: 2, L0471: 2, L0163: 2, H0428: 2, H0617: 2, H0124: 2, H0163: 2, H0100: 2, S0344: 2, S0002: 2, L0775: 2, H0670: 2, L0602: 2, L0743: 2, L0744: 2, L0747: 2, L0759: 2, S0434: 2, S0276: 2, H0506: 2, H0352: 2, H0556: 1, T0002: 1, S0402: 1, H0583: 1, H0656: 1, S0212: 1, S0110: 1, H0484: 1, H0255: 1, H0306: 1, S0418: 1, S0356: 1, S0358: 1, S0376: 1, S0360: 1, H0637: 1, S0132: 1, H0393: 1, L0717: 1, S0278: 1, H0549: 1, H0574: 1, L0623: 1, H0427: 1, L0021: 1, H0002: 1, H0123: 1, H0011: 1, H0012: 1, H0620: 1, H0015: 1, H0083: 1, H0188: 1, H0615: 1, H0039: 1, H0606: 1, H0551: 1, T0067:	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777



2431	HTTDT67	801964	2441	44 - 250	5038	Gln-5 to Gly-12, Gln-34 to Ile-46.	1, H0487: 1, H0412: 1, H0509: 1, H0654: 1, S0144: 1, H0529: 1, L0770: 1, L0769: 1, L0667: 1, L0772: 1, L0644: 1, L0773: 1, L0662: 1, L0767: 1, L0768: 1, L0766: 1, L0803: 1, L0657: 1, L0659: 1, L0518: 1, L0809: 1, L0544: 1, L0368: 1, L0790: 1, L0791: 1, L0666: 1, H0144: 1, S0374: 1, L0438: 1, H0520: 1, H0547: 1, H0658: 1, H0660: 1, H0672: 1, S0328: 1, H0539: 1, S0378: 1, S0380: 1, H0521: 1, S0406: 1, H0555: 1, H0478: 1, S3014: 1, S0027: 1, L0439: 1, L0780: 1, L0752: 1, L0755: 1, H0444: 1, H0445: 1, L0591: 1, L0362: 1, L0361: 1, H0668: 1, S0026: 1, S0242: 1, H0423: 1, H0422: 1 and S0456: 1.		
2432	HTTEO25	853403	2442	188 - 361	5039		H0584: 4, S0045: 4, H0543: 4, L0766: 3, L0803: 3, S0036: 2, H0040: 2, H0682: 2, H0696: 2, L0740: 2, L0777: 2, L0731: 2, L0758: 2, S0114: 1, H0228: 1, S0418: 1, H0586: 1, H0632: 1, H0706: 1, H0581: 1, H0050: 1, H0510: 1, S0002: 1, L0800: 1, L0768: 1, L0794: 1, L0805: 1, L0653: 1, L0655: 1, L0517: 1, L0809: 1, L0789: 1, L0663: 1, H0691: 1, L0748: 1, L0750: 1, H0445: 1 and H0506: 1. AR089: 6, AR316: 5, AR060: 5 L0740: 8, L0749: 8, S0040: 4, L0766: 4, L0779: 4, H0040: 3, L0752: 3, S0358: 2, L0471: 2, H0616: 2, L0763: 2, L0774: 2, L0659: 2, L0809: 2, H0144:	3p13-q23	156845, 156845, 156845, 164500, 182280, 227646, 261510, 600151, 600163, 601154

2433	HTTEP11	562023	2443	236 - 259	5040			2, L0744: 2, L0748: 2, L0754: 2, L0750: 2, L0756: 2, L0777: 2, L0758: 2, H0686: 1, H0685: 1, H0583: 1, H0657: 1, H0662: 1, S0360: 1, S0046: 1, L0717: 1, H0351: 1, H0549: 1, H0586: 1, H0587: 1, H0013: 1, S0280: 1, H0156: 1, H0575: 1, H0318: 1, H0231: 1, H0046: 1, S6028: 1, H0266: 1, H0687: 1, S0003: 1, S0214: 1, H0644: 1, H0090: 1, H0641: 1, S0002: 1, S0426: 1, L0764: 1, L0662: 1, L0561: 1, L0386: 1, L0775: 1, L0654: 1, L0665: 1, L0438: 1, H0593: 1, H0365: 1, H0555: 1, L0439: 1, L0746: 1, L0747: 1, L0780: 1, L0755: 1, S0308: 1, L0591: 1, L0362: 1, L0366: 1, S0026: 1 and S0192: 1.		
								AR060: 4, AR316: 4, AR089: 2 L0766: 2, S0036: 1, H0040: 1, S0112: 1 and S0210: 1.		
2434	HTTES77	844417	2444	1133 - 1255	5041	Met-1 to Ser-7.		L0748: 12, H0040: 7, L0779: 5, L0439: 3, L0749: 3, H0424: 2, L0758: 2, L0759: 2, H0642: 1, H0057: 1, H0373: 1, H0087: 1, S0038: 1, H0100: 1, L0763: 1, L0501: 1 and L0512: 1.	Xq25	300123, 301201, 301845, 304340, 307150, 308240, 310490, 312000, 313850
2435	HTTFD29	853404	2445	52 - 138	5042			H0040: 2		
2436	HTTFG15	600377	2446	30 - 113	5043			H0040: 4, L0439: 4, L0777: 3, L0758: 3, L0149: 2, L0805: 2, L0809: 2, L0731: 2, L0759: 2, H0586: 1, H0485: 1, H0052: 1, H0051: 1, S0388: 1, H0553: 1, L0770: 1, L0769: 1, L0794: 1, L0803: 1, L0790: 1, L0666: 1, L0779: 1 and S0192: 1.		

2437	HTWAM19	618318	2447	160 - 303	5044		S0052: 1 and H0187: 1.		
2438	HTWBF58	747706	2448	111 - 209	5045		H0436: 3		
2439	HTWBO30	655371	2449	137 - 367	5046	Met-1 to Thr-6.	S0046: 8, S0045: 7, L0777: 6, L0747: 5, T0049: 4, H0412: 4, L0771: 4, H0599: 2, H0024: 2, S0328: 2, L0588: 2, H0624: 1, H0713: 1, S0376: 1, S0444: 1, H0411: 1, H0013: 1, L0021: 1, S0049: 1, H0014: 1, H0373: 1, H0266: 1, H0188: 1, H0032: 1, H0616: 1, T0067: 1, H0268: 1, H0269: 1, H0413: 1, L0631: 1, L0769: 1, L0766: 1, L0805: 1, L0653: 1, L0606: 1, L0658: 1, L0659: 1, H0436: 1, S0037: 1, S0114: 1, L0748: 1, L0754: 1, L0749: 1 and L0755: 1.		
2440	HTWBZ57	828030	2450	990 - 1076	5047		AR089: 8, AR316: 7, AR060: 6 L0748: 10, S0358: 7, L0757: 5, L0766: 4, L0749: 4, L0759: 4, S0360: 3, H0393: 3, H0013: 3, S0214: 3, L0755: 3, H0423: 3, H0486: 2, H0318: 2, H0622: 2, H0032: 2, L0598: 2, L0774: 2, L0659: 2, L0783: 2, L0666: 2, H0144: 2, H0670: 2, S0380: 2, H0436: 2, L0740: 2, L0750: 2, L0758: 2, L0592: 2, S0218: 1, S0354: 1, S0376: 1, H0637: 1, H0580: 1, H0208: 1, H0550: 1, H0574: 1, L0021: 1, H0581: 1, H0327: 1, L0471: 1, H0373: 1, H0179: 1, S0003: 1, S0022: 1, H0615: 1, H0039: 1, H0031: 1, H0169: 1, H0598: 1, H0090: 1, S0142: 1, H0529: 1, L0642: 1, L0764: 1, L0773: 1, L0650: 1, L0775: 1, L0805: 1, L0776: 1, L0606: 1, L0657: 1, L0635:	15ql4-ql5	102540, 118511, 177070, 177070, 182500, 218000, 227220, 243500, 254770, 600839, 601800

2441	HTWCC10	747687	2451	244 - 306	5048			1, L0529: 1, L0787: 1, L0532: 1, L0665: 1, S0296: 1, H0520: 1, S0406: 1, L0747: 1, L0777: 1, L0752: 1, H0445: 1, S0192: 1, S0242: 1, S0194: 1, S0276: 1, H0422: 1 and S0384: 1.		
2442	HTWCE14	762839	2452	892 - 1053	5049	Pro-39 to Lys-54.		H0436: 1		
								AR310: 4, AR289: 3, AR266: 3, AR263: 3, AR238: 3, AR265: 2, AR295: 2, AR247: 2, AR291: 2, AR184: 2, AR285: 2, AR286: 2, AR296: 2, AR277: 2, AR313: 2, AR267: 2, AR268: 2, AR096: 2, AR298: 2, AR312: 2, AR053: 2, AR052: 1, AR183: 1, AR270: 1, AR234: 1, AR039: 1, AR253: 1, AR290: 1, AR233: 1, AR227: 1, AR284: 1, AR292: 1, AR309: 1, AR269: 1, AR282: 1, AR240: 1, AR316: 1, AR182: 1, AR299: 1, AR294: 1, AR185: 1		
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2443	HTWCT76	767758	2453	143 - 193	5050				1, H0436: 1, L0439: 1, L0750: 1, L0758: 1, S0436: 1 and L0593: 1.		
2444	HTWDJ17	784037	2454	302 - 1258	5051			Gly-25 to Gly-31, Glu-112 to Tyr-124, Leu-152 to Ile-160, Lys-167 to Thr-177.	H0436: 1 and H0595: 1. AR194: 22, AR281: 18, AR315: 17, AR244: 16, AR202: 16, AR238: 14, AR206: 14, AR263: 13, AR246: 13, AR039: 13, AR205: 12, AR280: 12, AR283: 12, AR241: 12, AR310: 12, AR243: 12, AR192: 11, AR314: 11, AR265: 11, AR282: 11, AR226: 10, AR232: 10, AR227: 10, AR204: 9, AR295: 9, AR033: 9, AR237: 9, AR284: 8, AR299: 8, AR213: 8, AR271: 8, AR266: 8, AR312: 8, AR289: 8, AR247: 8, AR198: 8, AR184: 8, AR285: 8, AR277: 8, AR251: 7, AR274: 7, AR229: 7, AR234: 7, AR286: 7, AR300: 7, AR055: 7, AR061: 7, AR292: 7, AR053: 7, AR177: 7, AR052: 7, AR309: 6, AR231: 6, AR313: 6, AR096: 6, AR296: 6, AR240: 6, AR270: 6, AR298: 6, AR104: 6, AR291: 6, AR233: 6, AR183: 6, AR294: 5, AR275: 5, AR269: 5, AR268: 5, AR182: 5, AR248: 5, AR267: 5, AR175: 5, AR273: 5,		

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2445	HTWDM89	569787	2455	244 - 318	5052			H0436: 1			
2446	HTWEA05	844386	2456	198 - 299	5053			H0436: 1			
2447	HTWEG06	762856	2457	132 - 305	5054			H0635: 1 and H0436: 1.			
2448	HTWEQ36	823369	2458	133 - 231	5055		Pro-24 to Glu-32.	L0596: 6, L0766: 5, L0747: 3, H0657: 2, H0013: 2, H0181: 2, H0674: 2, H0494: 2, L0763: 2, L0771: 2, L0662: 2, L0783: 2, L0664: 2, L0665: 2, L0438: 2, H0672: 2, L0743: 2, L0601: 2, S0298: 1, S0001: 1, H0661: 1, H0663: 1, S0356: 1, S0358: 1, S6026: 1, L0717: 1, S0278: 1, H0586: 1, L0586: 1, S0280: 1, L0021: 1, H0251: 1, H0545: 1, H0150: 1, H0266: 1, T0023: 1, H0628: 1, H0165: 1, H0087: 1, H0100: 1, H0334: 1, L0769: 1, L0638: 1, L0761: 1, L0667: 1, L0772: 1, L0372: 1, L0374: 1, L0764: 1, L0768: 1, L0774: 1, L0607: 1, L0659: 1, L0382: 1, L0647: 1, L0666: 1, L0663: 1, H0660: 1, H0539: 1, S0378: 1, H0436: 1, H0540: 1, S0027: 1, L0744: 1, L0439: 1, L0749: 1, L0777: 1, L0731: 1, L0758: 1, H0707: 1, L0591: 1, L0485:			

2449	HTWFA21	824551	2459	93 - 233	5056	Met-1 to Gln-6, Glu-30 to Asn-36.	1, L0593: 1, H0667: 1, H0423: 1 and H0422: 1. L0731: 2, L0157: 1, H0436: 1, L0779: 1, L0777: 1 and L0752: 1.		
2450	HTWFA88	596942	2460	293 - 643	5057		AR241: 10, AR313: 9, AR089: 6, AR312: 6, AR249: 5, AR248: 5, AR192: 5, AR282: 4, AR247: 4, AR271: 4, AR039: 4, AR185: 4, AR299: 4, AR096: 4, AR184: 4, AR273: 3, AR052: 3, AR186: 3, AR275: 3, AR204: 3, AR198: 3, AR251: 3, AR104: 3, AR310: 3, AR213: 3, AR300: 3, AR240: 3, AR053: 3, AR314: 2, AR266: 2, AR316: 2, AR309: 2, AR315: 2, AR182: 2, AR253: 2, AR277: 2, AR274: 2, AR265: 2, AR243: 2, AR060: 2, AR244: 2, AR294: 1, AR238: 1, AR205: 1, AR206: 1, AR296: 1 H0333: 1, H0036: 1 and H0436: 1.		
2451	HTWFM85	844677	2461	680 - 799	5058		L0483: 2, L0803: 2, H0436: 2, S0222: 1, H0596: 1, S0003: 1, H0030: 1, H0509: 1, S0150: 1, L4747: 1, L0768: 1, L0794: 1, L0518: 1, L0787: 1, H0144: 1, L0438: 1, H0547: 1, S0126: 1, H0660: 1, H0518: 1, L0740: 1, L0756: 1, L0759: 1 and H0422: 1.	10q24.1-q25.3	124020, 134637, 157640, 174900, 263700, 278000, 278000, 600095, 600512, 601969, 601969
2452	HTWFO43	858741	2462	193 - 285	5059	Lys-18 to Pro-23.	L0439: 10, L0662: 9, S0360: 1.		

[illegible]



2453	HTWLG39	853406	2463	200 - 298	5060		1 and H0506: 1. AR316: 12, AR089: 12, AR060: 12 L0748: 18, L0779: 9, L0740: 7, L0662: 6, L0752: 6, L0776: 4, L0439: 4, L0758: 4, L0771: 3, L0751: 3, H0497: 2, L0770: 2, L0769: 2, L0766: 2, L0774: 2, L0775: 2, L0659: 2, L0666: 2, L0747: 2, L0750: 2, L0777: 2, H0686: 1, S0116: 1, S0001: 1, S0376: 1, S0360: 1, H0393: 1, L0021: 1, H0421: 1, L0157: 1, L0471: 1, S0003: 1, H0040: 1, T0067: 1, L0435: 1, S0210: 1, L0502: 1, L0501: 1, L0638: 1, L0637: 1, L0767: 1, L0803: 1, L0651: 1, L0378: 1, L0509: 1, L0514: 1, L0665: 1, H0144: 1, S0374: 1, L0438: 1, H0576: 1, L0743: 1, L0745: 1, L0731: 1, H0444: 1, L0597: 1, L0605: 1, L0485: 1, L0366: 1 and H0542: 1.	8p21	152760, 180100, 185430, 602629
2454	HTXAA20	821342	2464	30 - 182	5061		L0803: 9, L0740: 9, L0769: 6, L0794: 5, L0805: 5, L0439: 5, L0518: 4, H0059: 3, L0809: 3, L0757: 3, H0550: 2, S0222: 2, H0497: 2, H0618: 2, H0620: 2, S0051: 2, L0638: 2, L0747: 2, L0750: 2, L0596: 2, L0605: 2, H0265: 1, H0583: 1, H0381: 1, S0282: 1, H0254: 1, H0255: 1, S0418: 1, S0360: 1, S0007: 1, H0486: 1, H0156: 1, H0052: 1, H0263: 1, H0545: 1, H0457: 1, H0150: 1, H0050: 1, T0010: 1, H0083: 1, H0286: 1, H0428: 1, H0418: 1, H0673: 1, S0036: 1, H0551: 1, H0264: 1, H0494:	10	

2455	HTXAD75	745410	2465	49 - 174	5062	Ala-25 to Asn-32.	<p>1, H0130: 1, L0770: 1, L0761: 1, L0646: 1, L0800: 1, L0662: 1, L0768: 1, L0774: 1, L0775: 1, L0776: 1, L0807: 1, L0659: 1, L0787: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0520: 1, H0682: 1, H0521: 1, H0478: 1, L0751: 1, L0755: 1, L0731: 1, L0759: 1, L0592: 1, L0608: 1, L0366: 1 and S0192: 1.</p> <p>L0731: 12, L0659: 11, L0803: 9, L0439: 9, L0756: 7, L0666: 5, L0747: 5, L0646: 4, L0375: 4, L0438: 4, L0599: 4, L0601: 4, L0600: 4, L0372: 3, L0662: 3, H0670: 3, H0660: 3, L0752: 3, L0757: 3, H0265: 2, S0212: 2, S0045: 2, L0717: 2, H0622: 2, H0628: 2, H0551: 2, H0412: 2, L0770: 2, L0637: 2, L0804: 2, L0378: 2, L0654: 2, L0655: 2, L0517: 2, H0519: 2, H0689: 2, H0672: 2, H0539: 2, L0602: 2, L0740: 2, L0754: 2, L0758: 2, L0590: 2, S0116: 1, S0001: 1, S0442: 1, S0444: 1, S0360: 1, S0132: 1, H0438: 1, L0021: 1, H0002: 1, S0474: 1, H0581: 1, L0040: 1, H0327: 1, L0041: 1, H0050: 1, H0275: 1, H0375: 1, S0003: 1, S0214: 1, H0039: 1, H0553: 1, H0644: 1, H0316: 1, H0598: 1, H0477: 1, S0386: 1, H0494: 1, H0561: 1, H0646: 1, H0695: 1, L0520: 1, L0640: 1, L0638: 1, L0796: 1, L0772: 1, L0373: 1, L0764: 1, L0648: 1, L0794: 1, L0649: 1, L0774: 1, L0651: 1, L0523: 1, L0805: 1, L0653: 1, L0657: 1,</p>	1q41-q42	106150, 106150, 145260, 173870, 173870, 276901, 600332, 600759, 600996, 601744, 601975
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2456	HTXAR92	656935	2466						L0519: 1, L0544: 1, L0789: 1, L0663: 1, L0664: 1, S0052: 1, H0684: 1, H0435: 1, H0658: 1, H0648: 1, S0378: 1, H0696: 1, H0704: 1, H0436: 1, L0777: 1, L0755: 1, L0588: 1, L0605: 1, S0026: 1, S0192: 1, S0194: 1, H0542: 1, S0412: 1 and H0352: 1.		
2457	HTXBS38	604984	2467	35 - 115 261 - 311	5063 5064				H0265: 1 and H0556: 1. L0754: 8, L0731: 4, L0663: 3, H0659: 3, H0670: 3, L0750: 3, L0779: 3, H0662: 2, S0360: 2, S0414: 2, L0763: 2, L0764: 2, L0662: 2, L0766: 2, L0803: 2, L0774: 2, L0528: 2, L0666: 2, S0328: 2, S0330: 2, L0777: 2, L0752: 2, H0423: 2, H0624: 1, H0265: 1, H0556: 1, H0657: 1, S0354: 1, S0358: 1, S0408: 1, H0329: 1, H0411: 1, S0222: 1, L0586: 1, L0105: 1, H0581: 1, H0081: 1, H0057: 1, H0014: 1, S0318: 1, H0428: 1, H0412: 1, H0625: 1, S0438: 1, S0422: 1, L0520: 1, L0769: 1, L0637: 1, L0646: 1, L0767: 1, L0649: 1, L0775: 1, L0651: 1, L0776: 1, L0655: 1, L0559: 1, L0659: 1, L0518: 1, L0532: 1, S0374: 1, L0438: 1, H0547: 1, H0519: 1, H0690: 1, H0648: 1, H0710: 1, L0439: 1, L0747: 1, L0758: 1, L0759: 1, S0434: 1, L0605: 1, L0599: 1, S0026: 1, S0192: 1 and H0352: 1.		
2458	HTXBU88	604985	2468	159 - 263	5065	Ile-17 to Ser-25.			H0265: 1		
2459	HTXCP27	892364	2469	153 - 200	5066				L0794: 12, H0038: 11, L0659: 9, L0596: 9, H0253: 8, L0758: 8, H0265: 7, H0556: 7.	2pter-p25.1	

						H0318: 6, H0547: 6, H0543: 5, H0657: 4, L0769: 4, L0591: 4, S0420: 3, H0617: 3, H0560: 3, L0763: 3, L0766: 3, L0664: 3, L0438: 3, H0519: 3, H0435: 3, L0748: 3, L0777: 3, L0593: 3, H0542: 3, H0423: 3, S0418: 2, S0356: 2, S0354: 2, S0360: 2, H0619: 2, H0618: 2, H0090: 2, S0440: 2, L0770: 2, L0764: 2, L0649: 2, L0803: 2, L0805: 2, L0654: 2, L0776: 2, L0655: 2, L0666: 2, L0663: 2, L0665: 2, H0144: 2, H0593: 2, L0602: 2, S0152: 2, H0521: 2, L0439: 2, L0740: 2, L0751: 2, H0136: 2, H0686: 1, H0685: 1, S0040: 1, H0716: 1, T0049: 1, H0583: 1, H0656: 1, H0341: 1, H0484: 1, H0483: 1, H0458: 1, S0376: 1, S0444: 1, S0408: 1, H0580: 1, H0393: 1, L0717: 1, H0351: 1, H0586: 1, H0333: 1, H0643: 1, L0623: 1, T0040: 1, T0060: 1, L0021: 1, H0052: 1, H0041: 1, H0009: 1, L0471: 1, H0620: 1, H0051: 1, S0250: 1, T0006: 1, H0424: 1, H0553: 1, S0036: 1, H0634: 1, H0616: 1, H0264: 1, H0412: 1, H0059: 1, S0038: 1, H0494: 1, H0561: 1, S0450: 1, H0714: 1, H0649: 1, S0002: 1, H0529: 1, L0506: 1, L0637: 1, L0772: 1, L0800: 1, L0648: 1, L0662: 1, L0804: 1, L0653: 1, L0559: 1, L0809: 1, L0789: 1, L0793: 1, H0702: 1, S0126: 1, S0270: 1, S0404: 1, S0406: 1, H0436: 1, L0749: 1, L0731: 1, L0757: 1, L0759: 1, S0031: 1,
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2460	HTXCU30	839846	2470	221 - 265	5067			H0707: 1, L0587: 1, L0588: 1, L0601: 1, H0668: 1, H0667: 1, S0194: 1, S0424: 1 and H0506: 1.		
2461	HTXCV44	740773	2471	181 - 375	5068		Leu-46 to Gly-54.	H0265: 1, H0012: 1 and L0518: 1.		
2462	HTXDJ21	739510	2472	189 - 317	5069		Lys-37 to His-42.	AR089: 10, AR316: 8, AR060: 7 H0265: 2, H0556: 2, S0049: 1, S0428: 1 and L0589: 1.		
2463	HTXDJ75	562780	2473	253 - 390	5070			AR060: 5, AR316: 4, AR089: 3 H0265: 2, L0589: 2, L0521: 1, L0523: 1 and H0423: 1.		
2464	HTXDJ85	590015	2474	210 - 293	5071			AR089: 14, AR316: 10, AR060: 7 H0265: 1, H0331: 1, H0100: 1 and H0436: 1.		
2465	HTXDK09	754079	2475	118 - 213	5072			L0748: 2, L0750: 2, L0758: 2, H0265: 1, L0655: 1, L0518: 1, L0519: 1, H0696: 1, L0779: 1 and S0026: 1.		
2466	HTXDO17	843388	2476	149 - 319	5073		Ser-48 to Thr-56.	L0758: 3, L0765: 2, H0265: 1, H0295: 1, H0632: 1, H0012: 1, L0142: 1, H0163: 1, L0766: 1, L0788: 1, L0665: 1, H0670: 1, H0672: 1 and L0731: 1.		
2467	HTXDI72	778083	2477	267 - 479	5074		Ala-45 to Thr-52.	AR089: 5, AR316: 5, AR060: 5 L0749: 2, L0601: 2, H0265: 1, H0123: 1 and H0024: 1.		
								AR089: 11, AR316: 9, AR060: 8 L0777: 11, H0618: 7, L0438: 6, H0144: 5, L0758: 5, H0059: 4, L0601: 4, H0556: 3, H0253: 3, H0052: 3, H0620: 3, H0617: 3, L0764: 3, L0768: 3, L0744: 3, L0747: 3, H0265: 2, H0341: 1.	16p11.2-pl1.1	147781, 172471, 182381

2468	HTXDU08	827578	2478	168 - 272	5075		<p>2, S0410: 2, S0046: 2, S0222:  2, H0013: 2, H0069: 2, S0049:  2, H0150: 2, H0087: 2, L0351:  2, L0771: 2, L0766: 2, L0665:  2, H0547: 2, H0659: 2, L0748:  2, L0439: 2, L0754: 2, L0749:  2, H0542: 2, S0040: 1, H0717:  1, H0716: 1, S0114: 1, T0049:  1, H0583: 1, H0657: 1, H0656:  1, H0381: 1, H0663: 1, S0358:  1, S0007: 1, S0278: 1, H0261:  1, H0550: 1, H0392: 1, H0486:  1, T0114: 1, S0010: 1, H0581:  1, H0374: 1, H0327: 1, H0545:  1, H0457: 1, H0012: 1, H0024:  1, H0015: 1, H0510: 1, H0594:  1, H0188: 1, H0292: 1, H0286:  1, H0622: 1, H0181: 1, H0135:  1, H0040: 1, H0063: 1, H0100:  1, T0041: 1, H0561: 1, S0440:  1, H0509: 1, H0529: 1, L0640:  1, L0770: 1, L0769: 1, L5566:  1, L0773: 1, L0662: 1, L0363:  1, L0774: 1, L0775: 1, L0806:  1, L0559: 1, L0783: 1, L0383:  1, H0698: 1, S0374: 1, H0520:  1, H0519: 1, S0292: 1, S0126:  1, H0682: 1, S0380: 1, H0696:  1, S0027: 1, L0740: 1, L0731:  1, H0445: 1, L0605: 1, L0592:  1 and H0543: 1.</p>		
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2469	HTXDZ68	824545	2479	323 - 406	5076			1, T0110: 1, H0545: 1, H0375: 1, H0124: 1, H0135: 1, H0090: 1, H0616: 1, H0202: 1, T0041: 1, S0438: 1, H0647: 1, S0344: 1, H0529: 1, L0371: 1, L0764: 1, L0804: 1, L0659: 1, L0783: 1, L0809: 1, L0663: 1, S0126: 1, H0648: 1, H0672: 1, S0152: 1, S0028: 1, L0749: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, S0434: 1, H0506: 1 and H0008: 1.		
2470	HTXEN33	589556	2480	151 - 282	5077			L0766: 2, H0265: 1, H0556: 1, H0575: 1, S0027: 1 and L0608: 1.		
2471	HTXES13	651367	2481	179 - 424	5078	Arg-64 to Lys-75.		H0556: 20, H0265: 8, H0638: 1, H0660: 1, H0521: 1 and L0749: 1.	6p25-p23	125264, 134570, 600511, 601090, 601556, 602028
								L0775: 8, L0783: 7, S0126: 5, H0657: 4, H0545: 4, L0764: 4, L0757: 4, L0758: 4, L0770: 3, L0769: 3, L0768: 3, L0766: 3, L0774: 3, L0776: 3, S014: 3, L0749: 3, L0755: 3, L0731: 3, L0759: 3, H0265: 2, S0360: 2, S0410: 2, S0007: 2, H0052: 2, H0086: 2, H0081: 2, H0012: 2, H0494: 2, H0509: 2, L0520: 2, L0744: 2, L0777: 2, L0581: 2, H0170: 1, H0220: 1, H0294: 1, S0134: 1, H0483: 1, H0661: 1, H0125: 1, S0376: 1, H0729: 1, S0045: 1, H0411: 1, H0550: 1, H0586: 1, L0622: 1, T0060: 1, H0253: 1, H0196: 1, H0085: 1, H0544: 1, H0178: 1, H0172: 1, H0028: 1, H0428: 1, H0033: 1, H0424: 1, H0213: 1, H0031: 1, S0366: 1, H0598: 1, H0135: 1, H0087: 1, H0413: 1, H0625: 1.		

2472	HTXFD86	899517	2482	132 - 179	5079			1, S0438: 1, S0440: 1, H0641: 1, H0633: 1, S0422: 1, L3904: 1, L0773: 1, L0655: 1, L0629: 1, L0807: 1, L0809: 1, L0543: 1, L0791: 1, H0689: 1, H0710: 1, H0521: 1, H0631: 1, L0742: 1, L0750: 1, L0756: 1, L0752: 1, S0434: 1, H0543: 1, H0293: 1 and H0352: 1. AR060: 3, AR316: 2, AR089: 2 L0748: 10, L0439: 10, L0777: 7, H0052: 5, L0769: 5, L0809: 5, H0556: 4, H0265: 3, L0770: 3, L0803: 3, S0206: 3, L0731: 3, H0393: 2, L0435: 2, L0764: 2, L0787: 2, L0665: 2, L0438: 2, H0547: 2, L0747: 2, L0750: 2, L0604: 2, L0601: 2, S0218: 1, L0426: 1, S0116: 1, H0341: 1, S0212: 1, H0484: 1, S0360: 1, H0329: 1, H0370: 1, H0486: 1, H0013: 1, H0427: 1, H0581: 1, H0178: 1, H0123: 1, H0030: 1, H0553: 1, L0055: 1, H0494: 1, S0440: 1, S0002: 1, L0369: 1, L0763: 1, L0639: 1, L0773: 1, L0648: 1, L0768: 1, L0794: 1, L0375: 1, L0805: 1, L0776: 1, L0666: 1, L0663: 1, L0664: 1, H0593: 1, H0659: 1, H0660: 1, H0672: 1, S0378: 1, H0518: 1, H0696: 1, S0146: 1, L0756: 1, L0757: 1, L0759: 1, H0707: 1, H0667: 1 and H0423: 1.		
2473	HTXGK12	896690	2483	102 - 200	5080			AR244: 6, AR266: 5, AR060: 5, AR186: 4, AR206: 4, AR243: 4, AR055: 4, AR273: 4,		



2474	HTXGL32	732135	2484	113 - 211	5081				AR052: 4, AR194: 4, AR205: 4, AR061: 3, AR298: 3, AR269: 3, AR312: 3, AR053: 3, AR182: 3, AR253: 3, AR184: 3, AR291: 3, AR274: 3, AR202: 3, AR246: 3, AR267: 3, AR309: 3, AR204: 3, AR270: 3, AR213: 3, AR296: 3, AR316: 3, AR313: 3, AR299: 3, AR033: 3, AR247: 3, AR096: 3, AR238: 3, AR284: 3, AR286: 2, AR290: 2, AR175: 2, AR183: 2, AR289: 2, AR293: 2, AR295: 2, AR198: 2, AR282: 2, AR277: 2, AR185: 2, AR283: 2, AR300: 2, AR268: 2, AR294: 2, AR089: 2, AR231: 2, AR285: 2, AR292: 2, AR219: 2, AR233: 2, AR226: 2, AR237: 2, AR259: 2, AR039: 2, AR256: 1, AR104: 1, AR240: 1, AR177: 1, AR234: 1, AR227: 1 H0013: 3, H0624: 2, H0556: 2, H0038: 2, H0265: 1, T0049: 1, H0270: 1, H0563: 1, H0024: 1, H0615: 1, S0368: 1, H0090: 1, T0042: 1, L0800: 1, L0662: 1, L0659: 1, L0790: 1, L0565: 1, S0330: 1, L0779: 1, L0595: 1 and S0424: 1.		
2475	HTXJD08	566885	2485	192 - 206	5082				H0265: 1 and H0556: 1. AR060: 9, AR316: 9,		

2476	HTXJD85	840391	2486	211 - 306	5083			AR089: 8 L0657: 2, H0556: 1, H0318: 1, H0539: 1, L0749: 1 and H0542: 1.		
2477	HTXJE12	862072	2487	204 - 455	5084	Pro-61 to Asn-72.		AR089: 14, AR316: 11, AR060: 8 H0556: 2, L0638: 1, L0748: 1 and L0439: 1. H0556: 6, L0775: 5, L0439: 5, H0052: 4, S0126: 4, L0748: 4, L0756: 4, L0779: 3, L0758: 3, H0125: 2, S0280: 2, H0051: 2, L0776: 2, L0438: 2, H0672: 2, S6024: 1, S0114: 1, S0134: 1, L0426: 1, S0418: 1, H0208: 1, S0222: 1, H0438: 1, H0492: 1, H0156: 1, H0024: 1, H0375: 1, H0553: 1, H0673: 1, H0038: 1, H0063: 1, H0561: 1, S0002: 1, H0529: 1, L0764: 1, L0662: 1, L0767: 1, L0651: 1, L0663: 1, L0665: 1, H0520: 1, L0750: 1, L0752: 1 and S0260: 1.	14q22.1-q24.3	104311, 109150, 112262, 182600, 182870, 182870, 182870, 245200, 600225, 600225, 601208
2478	HTXJI59	869905	2488	1809 - 1847	5085			S0360: 7, L0747: 7, L0757: 6, S0212: 5, L0659: 5, L0777: 5, L0766: 4, S0126: 4, L0740: 4, H0546: 3, H0266: 3, L0363: 3, L0378: 3, L0783: 3, L0439: 3, L0755: 3, H0624: 2, H0556: 2, T0049: 2, H0486: 2, T0040: 2, H0318: 2, H0545: 2, H0032: 2, H0551: 2, H0359: 2, L0773: 2, L0662: 2, L0768: 2, L0649: 2, L0775: 2, L0653: 2, L0776: 2, L0655: 2, L0665: 2, H0144: 2, S0378: 2, S0380: 2, S0027: 2, L0605: 2, L0590: 2, L0361: 2, L0601: 2, L0603: 2, H0653: 2, H0171: 1, H0295: 1, H0650: 1, H0255: 1, H0449: 1, H0638:	1q21	104770, 107670, 110700, 135940, 145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105, 601412, 601652, 602491

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2479	HTXJJ92	688062	2489	275 - 304	5086				AR089: 14, AR316: 12, AR060: 9 H0673: 3, S0053: 3, H0618: 2, H0179: 2, H0674: 2, S0216: 2, H0556: 1, S0116: 1, H0550: 1, H0069: 1, H0083: 1, H0271: 1, H0634: 1, H0059: 1, S0052: 1, S0428: 1, H0144: 1, S0152: 1 and S0031: 1.				
2480	HTXJM94	853413	2490	44 - 265	5087	Arg-5 to Phe-12, Ser-46 to Arg-51.			S0003: 5, L0740: 4, S0152: 3, H0624: 2, S0214: 2, H0040: 2, L0439: 2, H0556: 1, S0116: 1, S0420: 1, H0580: 1, H0586: 1, H0013: 1, H0635: 1, S0280: 1, H0274: 1, H0581: 1, L0471: 1, H0687: 1, T0006: 1, H0644: 1, H0032: 1, H0509: 1, S0426: 1, L0794: 1, L0766: 1, L0804:	6q13-q22.33	121014, 142470, 156225, 164200, 164200, 203310, 601316, 601410, 601757		

2481	HTXJW54	637729	2491	269 - 298	5088	Met-1 to Gly-9.	1, H0522: 1, H0187: 1, L0745: 1, L0779: 1, L0777: 1, L0757: 1, L0758: 1, L0759: 1, L0485: 1, S0196: 1 and H0542: 1. AR060: 3, AR316: 2, AR089: 2 H0644: 2, L0756: 2, L0752: 2, H0556: 1, H0318: 1, H0421: 1, L0803: 1, L0804: 1, L0651: 1, L0805: 1, H0521: 1, L0777: 1 and S0456: 1.	12q24.1	124200, 147440, 160781, 181405, 261600, 261600, 601406, 601620, 601621
2482	HTXJW06	789201	2492	635 - 1024	5089	Gly-80 to Gly-88.	H0556: 4, H0253: 4, H0620: 4, L0769: 3, L0764: 3, L0776: 3, L0809: 3, L0731: 3, S0212: 2, H0052: 2, L0483: 2, H0124: 2, H0087: 2, L0770: 2, L0662: 2, L0766: 2, L0657: 2, L0665: 2, L0565: 2, S0126: 2, S0328: 2, L0747: 2, L0758: 2, L0599: 2, L0603: 2, S0470: 1, S0114: 1, S0218: 1, H0657: 1, S0116: 1, H0484: 1, H0638: 1, S0420: 1, S0045: 1, S0046: 1, S0278: 1, H0549: 1, H0550: 1, T0114: 1, H0250: 1, H0156: 1, L0738: 1, H0327: 1, H0544: 1, H0546: 1, H0009: 1, L0471: 1, H0083: 1, H0355: 1, H0416: 1, H0428: 1, H0604: 1, H0181: 1, H0617: 1, H0032: 1, S0364: 1, H0063: 1, H0264: 1, H0100: 1, H0494: 1, H0560: 1, L0065: 1, H0132: 1, H0131: 1, S0150: 1, H0647: 1, L0638: 1, L0772: 1, L0387: 1, L0775: 1, L0658: 1, L0541: 1, S0052: 1, H0547: 1, H0672: 1, H0539: 1, S0406: 1, H0478: 1, H0732: 1, S0032: 1, L0439: 1, L0740: 1, L0779: 1, L0755: 1, L0757: 1, L0759: 1, H0343: 1.		

2483	HTXKB57	844329	2493	867 - 1052	5090	Phe-11 to Gly-16, Pro-33 to Ser-42.	1, S0434: 1, S0436: 1, L0581: 1, L0595: 1, H0665: 1, H0543: 1, H0423: 1 and S0446: 1. AR205: 21, AR245: 12, AR163: 11, AR162: 11, AR161: 11, AR165: 11, AR164: 11, AR166: 10, AR282: 9, AR192: 9, AR089: 9, AR039: 9, AR252: 8, AR207: 8, AR264: 8, AR195: 8, AR204: 8, AR272: 7, AR246: 7, AR198: 7, AR243: 6, AR247: 6, AR197: 6, AR196: 6, AR253: 6, AR193: 6, AR240: 6, AR188: 6, AR313: 6, AR254: 6, AR060: 5, AR311: 5, AR271: 5, AR309: 5, AR053: 5, AR299: 5, AR176: 5, AR263: 5, AR178: 5, AR312: 5, AR170: 5, AR250: 5, AR291: 5, AR191: 5, AR308: 5, AR213: 5, AR316: 5, AR199: 5, AR177: 5, AR180: 5, AR200: 4, AR242: 4, AR212: 4, AR185: 4, AR274: 4, AR261: 4, AR096: 4, AR231: 4, AR203: 4, AR181: 4, AR201: 4, AR174: 4, AR269: 4, AR104: 4, AR055: 4, AR189: 4, AR275: 4, AR237: 4, AR216: 4, AR300: 3, AR179: 3, AR288: 3, AR183: 3, AR234: 3,	17p13.2	
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2484	HTXKH22	562781	2494	350 - 388	5091			AR060: 3, AR316: 2, AR089: 1 L0439: 2 and H0556: 1.			
2485	HTXKH40.	600378	2495	153 - 293	5092		Leu-19 to Arg-25.	L0748: 18, H0547: 8, L0731: 8, H0556: 7, H0039: 6, L0666: 6, H0046: 5, H0059: 5, L0775: 5, L0439: 5, L0755: 5, H0622: 4, L0662: 4, L0740: 4, L0751: 4, L0779: 4, H0575: 3, H0553: 3, H0529: 3, L0769: 3, L0659: 3, H0519: 3, L0588: 3, L0608: 3, L0593: 3, S0011: 3, H0255: 2, S0418: 2, S0046: 2, H0586: 2, S0049: 2, H0150: 2, H0424: 2, H0644: 2, H0560: 2, H0561: 2, S0002: 2, S0426: 2, L0763: 2, L0772: 2, L0646: 2, L0655: 2, L0527: 2, L0518: 2, L0783: 2, L0664: 2, L0665: 2, L0438: 2, H0689: 2, H0672: 2, H0555: 2, H0631: 2, S0206: 2, L0752: 2, L0757: 2, L0758: 2, L0485: 2, L0601: 2, H0543: 2, H0171: 1, H0265: 1, S0040: 1, H0294: 1, T0049: 1, S0134: 1, H0583: 1, H0657: 1, H0484: 1, H0661: 1, H0125: 1, S0420: 1, S0354: 1, S0358: 1, S0360: 1, S0410: 1	lq21		104770, 107670, 110700, 135940, 145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105, 601412, 601652, 602491

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2486	HTXKK76	858755	2496	54 - 212	5093			AR089: 4, AR316: 4, AR060: 3 H0556: 1				
2487	HTXKL53	783141	2497	1245 - 1385	5094	Met-1 to Tyr-6, Thr-38 to Ala-44.		L0747: 3, H0328: 2, L0766: 2, L0665: 2, L0745: 2, L0608: 2, H0556: 1, S0116: 1, H0384: 1, S0360: 1, S0408: 1, H0637: 1, H0619: 1, H0492: 1, H0156: 1, H0421: 1, S0051: 1, H0083: 1, H0510: 1, H0266: 1, H0031: 1	20pter-q11.23			



2488	HTXKS11	688063	2498	133 - 249	5095			1, H0634: 1, H0560: 1, S0440: 1, H0132: 1, H0695: 1, L0769: 1, L0662: 1, L0776: 1, H0144: 1, H0690: 1, H0658: 1, H0521: 1, H0522: 1, L0746: 1, L0750: 1, L0759: 1, L0480: 1, L0589: 1, H0543: 1 and H0422: 1.		
2489	HTXKS27	877820	2499	286 - 453	5096		Gln-20 to Arg-25.	L0748: 2 and H0556: 1.		
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2490	HTXLC05	843523	2500	295 - 537	5097		Thr-39 to Arg-47.	AR060: 7, AR316: 5, AR089: 2 S0410: 2, H0556: 1, H0024: 1, L0803: 1, L0806: 1 and L0790: 1.		
2491	HTXLC45	834930	2501	359 - 511	5098			AR060: 7, AR316: 6, AR089: 3 H0556: 1	2p14-q22.3	182601, 203800, 278300, 601071, 602134
2492	HTXLT36	843477	2502	189 - 230	5099			AR060: 7, AR316: 7, AR089: 7 H0250: 2, H0477: 2, L0804: 2, L0791: 2, H0660: 2, S0406: 2.	4p16	225500, 600593, 602363

2493	HTXLY94	844165	2503	893 - 1000	5100	Pro-26 to Ser-33.	2, L0758: 2, H0171: 1, H0556: 1, T0049: 1, L0760: 1, S0356: 1, H0587: 1, H0013: 1, H0635: 1, H0081: 1, S0003: 1, H0135: 1, H0090: 1, T0042: 1, L0065: 1, L0520: 1, L0766: 1, L0655: 1, L0665: 1, H0539: 1, L0747: 1, L0749: 1, L0757: 1, L0759: 1, H0423: 1, H0422: 1 and H0352: 1. L0439: 16, L0794: 7, L0438: 7, L0779: 5, L0745: 4, L0777: 4, L0770: 3, L0769: 3, H0144: 3, L0747: 3, H0556: 2, L0415: 2, H0150: 2, L0519: 2, L0666: 2, L0755: 2, L0589: 2, L0581: 2, H0171: 1, L0443: 1, S0282: 1, S0358: 1, S0360: 1, S0222: 1, H0370: 1, H0331: 1, T0109: 1, H0244: 1, H0156: 1, S0010: 1, H0581: 1, L0738: 1, H0009: 1, H0024: 1, H0373: 1, S0388: 1, T0010: 1, H0510: 1, L0455: 1, L0456: 1, H0163: 1, H0494: 1, S0002: 1, L0761: 1, L0764: 1, L0363: 1, L0803: 1, L0774: 1, L0806: 1, L0653: 1, L0659: 1, L0809: 1, L0791: 1, L0664: 1, H0520: 1, H0547: 1, H0658: 1, S0328: 1, H0436: 1, L0740: 1, L0731: 1, L0757: 1, L0758: 1, L0592: 1, H0543: 1 and S0424: 1.				
2494	HTXNV66	840597	2504	674 - 949	5101	Ser-16 to Pro-21.	AR213: 22, AR295: 16, AR284: 14, AR052: 13, AR296: 13, AR285: 12, AR291: 11, AR053: 10, AR313: 10, AR089: 9, AR298: 9, AR292: 9, AR289: 8, AR286: 7, 16p12	108730, 147781, 172471, 186580, 266600, 600760, 600760, 600761, 602066			

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2495	HTXOL30	838462	2505	272 - 316	5102			2, H0457: 2, H0594: 2, L0455: 2, L0803: 2, L0783: 2, L0438: 2, H0670: 2, L0758: 2, T0002: 1, S0116: 1, S0212: 1, H0125: 1, S0420: 1, S0376: 1, H0619: 1, H0645: 1, S0222: 1, H0013: 1, L0021: 1, H0599: 1, S0010: 1, H0421: 1, T0110: 1, H0150: 1, H0009: 1, H0050: 1, H0012: 1, H0252: 1, L0456: 1, H0087: 1, T0067: 1, H0264: 1, H0623: 1, L0065: 1, H0509: 1, S0472: 1, L0770: 1, L0769: 1, L0637: 1, L0764: 1, L0768: 1, L0387: 1, L0649: 1, L0804: 1, L0775: 1, L0651: 1, L0636: 1, L0517: 1, L0788: 1, L0789: 1, L0793: 1, L0663: 1, S0428: 1, S0126: 1, H0689: 1, H0435: 1, S0380: 1, H0518: 1, H0436: 1, S3014: 1, S0028: 1, L0777: 1, L0752: 1, L0589: 1, L0593: 1, S0026: 1, H0677: 1 and H0506: 1.		
2496	HTXOW27	839280	2506	1070 - 1150	5103			AR089: 15, AR316: 12, AR060: 10 H0556: 1 AR089: 7, AR316: 7, AR060: 7 H0556: 5, H0617: 5, L0766: 5, L0439: 5, L0761: 4, H0265: 2, H0650: 2, S0222: 2, H0052: 2, L0118: 2, H0622: 2, H0135: 2, H0087: 2, L0662: 2, L0438: 2, H0593: 2, H0689: 2, L0749: 2, L0752: 2, L0731: 2, L0758: 2, L0681: 2, L0605: 2, L0361: 2, H0543: 2, H0222: 1, S0114: 1, H0657: 1, H0671: 1, S0418: 1, S0356: 1, S0360: 1, H0340: 1, H0550: 1, H0600: 1, H0587: 1	18q12	114400, 176300, 176300, 176300, 257220, 257220

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2497	HTXPD86	834772	2507	900 - 1043	5104	Gly-30 to Thr-44.	AR060: 18, AR316: 17, AR089: 16 L0766: 11, H0305: 10, L0769: 6, L0748: 6, L0794: 5, L0439: 5, L0774: 3, S0328: 3, L0747: 3, L0758: 3, H0618: 2, L0770: 2, L0659: 2, L0663: 2, H0547: 2, H0682: 2, H0670: 2, H0521: 2, L0741: 2, L0749: 2, L0755: 2, L0731: 2, L0759: 2, L0596: 2, H0653: 2, H0543: 2, H0170: 1, H0265: 1, H0556: 1, H0686: 1, S0040: 1, H0294: 1, S0134: 1, H0341: 1, S0212: 1, S0358: 1, S0408: 1, S0140: 1, S0132: 1, S0222: 1, H0333: 1, H0599: 1, H0575: 1, H0253: 1, H0581: 1, S0049: 1, H0052: 1,			

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2498	HTXPT57	897834	2508	93 - 371	5105				AR089: 38, AR316: 28, AR060: 19 H0556: 1, H0632: 1, L0659: 1 and L0753: 1.				
2499	HTYSJ88	598718	2509	44 - 151	5106				H0156: 1 and H0116: 1.				
2500	HUDBE20	637731	2510	202 - 321	5107				S0042: 1				
2501	HUDBK47	669688	2511	147 - 266	5108				H0318: 1 and S0042: 1.				
2502	HUFAB57	587275	2512	232 - 348	5109			Lys-21 to Ser-26.	AR089: 11, AR316: 9, AR060: 6 L0499: 7, L0511: 4, L0504: 3, L0508: 2, L0509: 2, S0360: 1, H0586: 1, H0333: 1, L0471: 1, H0135: 1, H0488: 1, H0633: 1, L0505: 1, L0507: 1, L0766: 1, L0657: 1, L0493: 1, L0510: 1, L0519: 1, L2245: 1, H0648: 1, L0750: 1, L0779: 1, L0599: 1 and H0506: 1.				
2503	HUFAL17	741072	2513	54 - 152	5110				H0506: 1				
2504	HUFAO92	608175	2514	304 - 525	5111				L0773: 2, H0671: 1, H0176: 1, S0356: 1, S0358: 1, H0039:				

2505	HUFAO94	668267	2515	229 - 270	5112		1, H0622: 1, H0616: 1, L0764: 1, L0659: 1, L0783: 1, L0809: 1, H0539: 1, S0406: 1, L0601: 1 and H0506: 1. AR089: 17, AR316: 15, AR060: 14 S0358: 8, H0545: 8, L0755: 7, L0740: 6, L0769: 5, L0766: 5, H0494: 4, L0777: 4, L0757: 4, H0294: 3, H0318: 3, H0424: 3, H0617: 3, L0768: 3, H0696: 3, L0742: 3, L0601: 3, H0295: 2, S0116: 2, H0341: 2, S0360: 2, S0408: 2, S0007: 2, S0045: 2, H0351: 2, H0550: 2, S0222: 2, H0586: 2, H0253: 2, H0081: 2, H0050: 2, H0620: 2, H0181: 2, H0087: 2, H0413: 2, H0100: 2, S0144: 2, L0648: 2, L0775: 2, L0378: 2, L0806: 2, L0805: 2, L0776: 2, S0126: 2, H0711: 2, H0522: 2, S0044: 2, S014: 2, L0754: 2, L0592: 2, L0581: 2, H0423: 2, H0624: 1, H0686: 1, H0717: 1, H0716: 1, S0114: 1, T0049: 1, H0656: 1, S0212: 1, H0661: 1, S0442: 1, S0046: 1, S0476: 1, H0370: 1, H0392: 1, H0455: 1, H0592: 1, H0632: 1, H0486: 1, T0060: 1, H0156: 1, H0618: 1, S0474: 1, H0421: 1, S0049: 1, H0052: 1, H0231: 1, H0327: 1, H0546: 1, H0046: 1, H0150: 1, H0041: 1, H0572: 1, H0123: 1, H0012: 1, H0024: 1, H0356: 1, H0288: 1, H0252: 1, H0328: 1, H0428: 1, T0006: 1, H0213: 1, H0606: 1, S0036: 1, H0551: 1, H0561: 1, S0438: 1, S0440: 1, H0646: 1, H0529: 1, H0741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 173850, 207750, 248600, 258501	19q13.2	
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2506	HUFAP33	600379	2516	60 - 1046	5113	Tyr-63 to Thr-72, Asn-106 to Ile-115, Lys-133 to Tyr-142, Lys-156 to Leu-161, Cys-272 to Ser-282.	1, L0369: 1, L0762: 1, L0770: 1, L0638: 1, L3904: 1, L0630: 1, L0772: 1, L0767: 1, L0364: 1, L0628: 1, L0807: 1, L0809: 1, H0144: 1, H0547: 1, H0593: 1, H0682: 1, H0658: 1, H0660: 1, H0666: 1, H0648: 1, H0672: 1, H0651: 1, H0539: 1, H0521: 1, H0704: 1, S3012: 1, S0028: 1, S0032: 1, L0747: 1, L0758: 1, S0260: 1, H0445: 1, H0343: 1, S0434: 1, S0194: 1, S0276: 1, H0543: 1, H0422: 1, S0042: 1 and H0506: 1.	10q25.3-q26.1	246600, 263700, 600035, 601969, 601969
2507	HUFAU71	638836	2517	1041 - 1136	5114		AR089: 3, AR316: 2 L0439: 18, L0740: 6, L0731: 6, L0596: 6, L0748: 5, L0804: 3, L0659: 2, L0749: 2, H0583: 1, S0045: 1, S0132: 1, H0411: 1, H0592: 1, S0010: 1, S0346: 1, H0235: 1, S0051: 1, H0083: 1, H0687: 1, H0040: 1, H0634: 1, H0063: 1, L0351: 1, L0769: 1, L0638: 1, L0667: 1, L0646: 1, L0643: 1, L0775: 1, L0657: 1, L0384: 1, L0789: 1, H0690:	12q22-q23.1	124200, 147440, 160781, 201470, 235800, 273300, 600175



2508	HUFBK95	683039	2518	174 - 224	5115			1, L0777: 1, L0780: 1, L0757: 1, L0758: 1, L0686: 1 and H0506: 1.		
2509	HUFBP77	596839	2519	95 - 424	5116	Pro-44 to Asp-50.		AR060: 2, AR316: 1 L0745: 3, H0040: 1, L0768: 1, L0754: 1 and H0506: 1. AR246: 6, AR265: 6, AR244: 5, AR194: 5, AR274: 4, AR282: 3, AR202: 3, AR313: 3, AR052: 3, AR315: 3, AR205: 3, AR039: 3, AR310: 3, AR271: 3, AR206: 3, AR277: 3, AR281: 2, AR089: 2, AR053: 2, AR192: 2, AR312: 2, AR104: 2, AR266: 2, AR299: 2, AR314: 2, AR280: 2, AR213: 2, AR096: 2, AR240: 2, AR060: 2, AR253: 2, AR186: 2, AR182: 2, AR273: 2, AR316: 2, AR309: 2, AR284: 1, AR295: 1, AR033: 1, AR185: 1, AR183: 1, AR270: 1, AR247: 1, AR300: 1, AR290: 1 S0328: 5, H0144: 3, H0013: 2, H0648: 2, H0486: 1, H0596: 1, H0457: 1, L0643: 1, L0626: 1, L0655: 1, H0659: 1, L0759: 1 and H0506: 1.		
2510	HUFBV62	742892	2520	453 - 548	5117	Cys-13 to Trp-19, Ser-22 to Ile-27.		AR089: 5, AR316: 3, AR060: 2 L0768: 3, L0471: 2, H0428: 2, L0759: 2, H0170: 1, H0600: 1, S0280: 1, H0596: 1, S0336: 1, S0440: 1, L0766: 1, L0803:		

2511	HUFBY96	838624	2521	334 - 411	5118	1, L0375: 1, L0653: 1, H0144: 1, H0521: 1, L0743: 1, L0779: 1, L0755: 1, L0731: 1 and H0506: 1. AR089: 6, AR316: 5, AR060: 5 L0754: 14, L0809: 12, L0439: 12, L0758: 11, L0770: 10, L0731: 10, H0013: 8, H0031: 8, L0666: 8, H0580: 7, L0803: 7, L0662: 6, L0794: 6, L0664: 6, L0779: 6, S0002: 5, L0766: 5, L0776: 5, L0659: 5, L0438: 5, L0747: 5, H0575: 4, H0038: 4, L0800: 4, H0521: 4, S0358: 3, L0717: 3, S0010: 3, H0545: 3, H0457: 3, H0598: 3, H0647: 3, S0144: 3, S0142: 3, L0774: 3, L0775: 3, L0783: 3, L0777: 3, L0752: 3, L0595: 3, L0603: 3, H0677: 3, S0134: 2, H0638: 2, S0444: 2, S0360: 2, S0007: 2, S0222: 2, T0039: 2, H0318: 2, S0049: 2, H0309: 2, L0471: 2, H0024: 2, S0214: 2, H0644: 2, H0090: 2, H0488: 2, H0646: 2, S0344: 2, S0426: 2, H0529: 2, L0769: 2, L0646: 2, L0764: 2, L0771: 2, L0768: 2, L0649: 2, L0375: 2, L0651: 2, L0805: 2, L0634: 2, L0789: 2, L0663: 2, L0665: 2, L0565: 2, H0547: 2, H0670: 2, S0330: 2, H0555: 2, H0436: 2, L0749: 2, L0786: 2, L0362: 2, H0170: 1, T0002: 1, H0686: 1, S0040: 1, S6024: 1, H0650: 1, L0443: 1, S0116: 1, H0661: 1, H0662: 1, L0005: 1, S0356: 1, S0410: 1, S0476: 1, S0300: 1, H0369: 1,	5q31-q32	109690, 109690, 121050, 131400, 138040, 138491, 138491, 138491, 153455, 154500, 159000, 179095, 180071, 181460, 192974, 192974, 222600, 222600, 222600, 272750, 600807, 601596, 601692, 601692, 601692, 602089, 602121, 602460
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2512	HUFCN72	664789	2522	253 - 345	5119	H0506: 1						
2513	HUFEF79	704092	2523	201 - 263	5120	L0794: 8, L0593: 5, H0656: 3, H0686: 2, S0358: 2, H0428: 2, L0766: 2, L0650: 2, L0666: 2, H0519: 2, S0406: 2, L0608: 2, L0595: 2, H0422: 2, H0583: 1, H0341: 1, T0008: 1, H0587:	8					

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2514	HUKAD46	604986	2524	200 - 352	5121	Arg-45 to Ser-50.		L0803: 2, L0589: 2, H0550: 1, H0618: 1, H0424: 1, H0059: 1, L0794: 1, L0789: 1, L0748: 1 and H0445: 1.			
2515	HUKAI28	843240	2525	61 - 159	5122			L0439: 6, L0803: 2, L0747: 2, L0758: 2, H0050: 1, H0059: 1, L0764: 1, L0794: 1, L0776: 1, L0515: 1, L0438: 1 and L0779: 1.			
2516	HUKAO50	805975	2526	815 - 835	5123			L0752: 5, L0731: 4, S0222: 3, L0471: 3, L0748: 3, L0439: 3, L0777: 3, S0410: 2, H0351: 2, H0013: 2, H0581: 2, S0003: 2, H0059: 2, L0766: 2, L0803: 2, L0789: 2, L0793: 2, L0663: 2, L0438: 2, L0740: 2, L0751: 2, L0779: 2, L0755: 2, L0589: 2, L0591: 2, S0040: 1, H0716: 1, S0212: 1, S0001: 1, H0600: 1, H0586: 1, H0486: 1, T0109: 1, H0002: 1, H0590: 1, S0346: 1, S0049: 1, H0052: 1, T0010: 1, H0673: 1, H0163: 1, L0564: 1, T0042: 1, S0440: 1, L0520: 1, L0770: 1, L0761: 1, L0800: 1, L0662: 1, L0768: 1, L0805: 1, L0652: 1, L0776: 1, L0659: 1, L0790: 1, L0792: 1, S0374: 1, L0352: 1, H0520: 1, H0519: 1.	8q22-q23	216550, 239730	

2517	HUKCS86	826468	2527	201 - 899	5124	Arg-7 to Ser-32, Ala-37 to Glu-50, Ser-52 to Phe-64, Leu-109 to Ala-115.	1, H0435: 1, H0648: 1, S0328: 1, S0152: 1, H0696: 1, H0555: 1, L0749: 1, L0756: 1, L0758: 1, L0759: 1 and S0196: 1. AR089: 25, AR316: 21, AR060: 16 L0745: 27, H0584: 26, H0494: 25, H0556: 19, H0585: 19, H0069: 17, L0659: 17, H0265: 14, H0271: 14, L0666: 12, L0777: 12, S0132: 10, H0551: 10, S0360: 9, H0529: 9, L0662: 9, H0622: 8, L0653: 8, L0746: 8, H0656: 7, S0476: 7, H0575: 7, H0052: 7, H0083: 7, H0416: 7, H0039: 7, L0769: 7, L0664: 7, H0436: 7, H0581: 6, H0555: 6, H0224: 5, L0665: 5, S0126: 5, L0731: 5, S0212: 4, H0179: 4, S0312: 4, L0770: 4, L0774: 4, H0547: 4, H0435: 4, L0439: 4, L0596: 4, H0167: 3, S0040: 3, S0282: 3, S0046: 3, H0266: 3, S0314: 3, H0561: 3, S0440: 3, H0646: 3, L0768: 3, L0766: 3, L0657: 3, L0382: 3, L0809: 3, L0663: 3, H0710: 3, H0543: 3, H0141: 2, H0225: 2, H0222: 2, H0717: 2, H0663: 2, S0418: 2, S0376: 2, S0045: 2, H0550: 2, H0392: 2, H0586: 2, H0559: 2, L0586: 2, H0635: 2, H0427: 2, H0373: 2, T0010: 2, S0340: 2, H0634: 2, H0623: 2, H0625: 2, S0002: 2, L0637: 2, L0772: 2, L0804: 2, L0647: 2, S0052: 2, L0438: 2, H0593: 2, H0658: 2, H0539: 2, H0696: 2, S0406: 2, S0314: 2, S0028: 2, L0751: 2, L0779: 2, L0758:	10pter-q26.12	
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2518	HUKCS86	844245	2528	201 - 899	5125	Arg-7 to Ser-32,	AR089: 25, AR316: 21, S0384: 1.	10pter-q26.12	
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Ala-37 to Glu-50, Ser-52 to Phe-64, Leu-109 to Ala-115.	AR060: 16 L0745: 27, H0584: 26, H0494: 25, H0556: 19, H0585: 19, H0069: 17, L0659: 17, H0265: 14, H0271: 14, L0666: 12, L0777: 12, S0132: 10, H0551: 10, S0360: 9, H0529: 9, L0662: 9, H0622: 8, L0653: 8, L0746: 8, H0656: 7, S0476: 7, H0575: 7, H0052: 7, H0083: 7, H0416: 7, H0039: 7, L0769: 7, L0664: 7, H0436: 7, H0581: 6, H0555: 6, H0224: 5, L0665: 5, S0126: 5, L0731: 5, S0212: 4, H0179: 4, S0312: 4, L0770: 4, L0774: 4, H0547: 4, H0435: 4, L0439: 4, L0596: 4, H0167: 3, S0040: 3, S0282: 3, S0046: 3, H0266: 3, S0314: 3, H0561: 3, S0440: 3, H0646: 3, L0768: 3, L0766: 3, L0657: 3, L0382: 3, L0809: 3, L0663: 3, H0710: 3, H0543: 3, H0141: 2, H0225: 2, H0222: 2, H0717: 2, H0663: 2, S0418: 2, S0376: 2, S0045: 2, H0550: 2, H0392: 2, H0586: 2, H0559: 2, L0586: 2, H0635: 2, H0427: 2, H0373: 2, T0010: 2, S0340: 2, H0634: 2, H0623: 2, H0625: 2, S0002: 2, L0637: 2, L0772: 2, L0804: 2, L0647: 2, S0052: 2, L0438: 2, H0593: 2, H0658: 2, H0539: 2, H0696: 2, S0406: 2, S0314: 2, S0028: 2, L0751: 2, L0779: 2, L0758: 2, H0445: 2, L0608: 2, L0595: 2, H0542: 2, H0423: 2, H0422: 2, S0424: 2, H0159: 1, H0713: 1, H0657: 1, H0341: 1, H0661: 1, H0402: 1, S0420: 1, S0356:
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2519	HUKFA22	702029	2529	63 - 173	5126	<p>1, S0442: 1, H0580: 1, H0722: 1, H0645: 1, H0261: 1, H0592: 1, H0587: 1, H0497: 1, H0362: 1, H0333: 1, H0643: 1, H0486: 1, T0060: 1, T0109: 1, H0250: 1, S0280: 1, H0036: 1, S0182: 1, H0196: 1, H0310: 1, H0024: 1, H0014: 1, H0015: 1, H0051: 1, H0201: 1, S0051: 1, H0375: 1, S0318: 1, S0334: 1, S0336: 1, S0316: 1, H0687: 1, H0288: 1, H0286: 1, H0252: 1, T0023: 1, L0483: 1, H0213: 1, H0553: 1, H0617: 1, S0364: 1, L0455: 1, H0708: 1, H0040: 1, H0413: 1, H0059: 1, T0041: 1, H0429: 1, S0370: 1, S0306: 1, H0647: 1, S0426: 1, L0369: 1, L0639: 1, L5565: 1, L0667: 1, L0646: 1, L0764: 1, L0773: 1, L0363: 1, L0803: 1, L0775: 1, L0375: 1, L0651: 1, L0378: 1, L0805: 1, L0652: 1, L0776: 1, L0636: 1, L0783: 1, L0383: 1, L0787: 1, S0428: 1, S0053: 1, H0701: 1, H0703: 1, H0520: 1, H0660: 1, H0672: 1, H0651: 1, S0378: 1, S0380: 1, H0518: 1, S0044: 1, H0134: 1, H0631: 1, S0390: 1, S0037: 1, S0027: 1, S0032: 1, L0740: 1, L0752: 1, L0755: 1, L0759: 1, S0434: 1, L0591: 1, H0653: 1, S0276: 1 and S0384: 1.</p>		
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2520	HUKEL79	762857	2530	94 - 180	5127		4, L0777: 4, L0752: 4, H0590: 3, H0617: 3, L0771: 3, L0773: 3, L0768: 3, L0766: 3, L0805: 3, L0527: 3, L0809: 3, H0672: 3, L0740: 3, L0747: 3, L0779: 3, S0354: 2, S0360: 2, S0278: 2, H0492: 2, H0575: 2, H0052: 2, H0150: 2, H0014: 2, H0169: 2, H0059: 2, H0102: 2, L0769: 2, L0764: 2, L0767: 2, L0803: 2, L0775: 2, L0806: 2, L0791: 2, S0374: 2, S0380: 2, H0696: 2, S014: 2, L0751: 2, L0756: 2, L0755: 2, L0731: 2, L0759: 2, L0596: 2, L0591: 2, H0422: 2, H0556: 1, H0295: 1, H0656: 1, H0341: 1, H0661: 1, H0663: 1, S0418: 1, S0420: 1, S0356: 1, S0410: 1, L0717: 1, H0318: 1, H0421: 1, S0049: 1, H0085: 1, H0597: 1, H0545: 1, H0046: 1, H0050: 1, H0012: 1, L0492: 1, H0051: 1, H0239: 1, H0594: 1, H0622: 1, H0424: 1, H0181: 1, H0165: 1, H0673: 1, H0040: 1, H0413: 1, L0370: 1, S0294: 1, S0422: 1, H0529: 1, L0763: 1, L0770: 1, L0639: 1, L0645: 1, L0649: 1, L0375: 1, L0651: 1, L0376: 1, L0655: 1, L0657: 1, L0542: 1, L0526: 1, L0783: 1, L0529: 1, L0789: 1, L0663: 1, H0144: 1, H0693: 1, L0438: 1, H0520: 1, H0689: 1, H0435: 1, H0658: 1, S0330: 1, S0152: 1, H0134: 1, S0406: 1, L0754: 1, L0750: 1, L0786: 1, L0593: 1, L0595: 1, H0543: 1 and S0452: 1.	5p14.2-q22.3	123000
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2521	HUKEX37	602275	2531	220 - 291	5128		H0343: 1, H0595: 1, L0591: 1, H0665: 1, S0192: 1, S0276: 1 and H0543: 1.		
2522	HUKFC71	1300740	2532	260 - 289	5129		H0059: 1 AR060: 17, AR316: 17, AR089: 17 S0410: 9, L0755: 7, H0031: 5, H0038: 5, L0771: 4, L0766: 4, L0809: 4, L0742: 4, L0747: 4, L0786: 4, S0360: 3, H0618: 3, H0266: 3, H0059: 3, S0150: 3, L0768: 3, L0775: 3, L0806: 3, L0777: 3, L0601: 3, H0171: 2, H0661: 2, H0393: 2, H0592: 2, H0632: 2, H0486: 2, H0530: 2, H0617: 2, H0616: 2, L0769: 2, L0805: 2, L0493: 2, L0517: 2, L0789: 2, H0547: 2, S014: 2, L0750: 2, L0752: 2, L0731: 2, L0758: 2, L0588: 2, H0624: 1, H0294: 1, S0134: 1, H0657: 1, H0341: 1, H0483: 1, H0125: 1, S0444: 1, S0046: 1, S0476: 1, H0497: 1, H0333: 1, H0331: 1, H0559: 1, L0622: 1, S0010: 1, T0048: 1, H0581: 1, H0263: 1, H0597: 1, H0231: 1, H0544: 1, H0546: 1, H0545: 1, H0150: 1, H0041: 1, H0267: 1, H0288: 1, H0290: 1, H0292: 1, S0003: 1, L0142: 1, H0181: 1, H0169: 1, H0124: 1, H0598: 1, H0040: 1, H0087: 1, H0412: 1, H0494: 1, S0440: 1, H0130: 1, S0344: 1, L0762: 1, L0371: 1, L0770: 1, L0800: 1, L0521: 1, L0381: 1, L0499: 1, L0498: 1, L0497: 1, L0522: 1, L0803: 1, L0774: 1, L0378: 1, L0509: 1, L0776: 1, L0807: 1, L0514: 1, L0515: 1		118210, 120550, 120570, 120575, 121800, 130500, 133200, 138140, 138971, 171760, 171760, 172411, 178300, 185470, 230350, 255800, 602771

2523	HUKFV37	845161	2607	261 - 290	5204	Asn-62 to Tyr-70.	1, L0634: 1, L0782: 1, H0690: 1, H0659: 1, H0658: 1, H0670: 1, H0648: 1, S0037: 1, S0027: 1, L0748: 1, L0749: 1, L0757: 1, L0759: 1, H0444: 1, S0436: 1, S0026: 1 and H0542: 1.		
		844644	2533	49 - 720	5130				
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2524	HUKFY09	784086	2534	237 - 278	5131	Glu-2 to Tyr-11.	L0743: 2, L0752: 2, L0755: 2, L0758: 2, L0603: 2, H0543: 2, S0342: 1, H0717: 1, S0114: 1, H0583: 1, H0381: 1, H0341: 1, H0254: 1, H0255: 1, H0671: 1, H0402: 1, H0125: 1, S0442: 1, H0728: 1, H0261: 1, H0549: 1, H0550: 1, H0613: 1, H0587: 1, H0333: 1, H0331: 1, H0574: 1, H0485: 1, T0114: 1, H0250: 1, H0575: 1, H0390: 1, T0048: 1, T0110: 1, H0597: 1, H0231: 1, H0545: 1, H0439: 1, H0150: 1, H0086: 1, H0373: 1, H0051: 1, T0010: 1, H0356: 1, H0510: 1, H0375: 1, H0687: 1, H0688: 1, S0368: 1, L0055: 1, H0189: 1, H0059: 1, L0435: 1, H0561: 1, H0633: 1, H0646: 1, S0426: 1, L0763: 1, L0372: 1, L0643: 1, L0374: 1, L0767: 1, L0649: 1, L0381: 1, L0650: 1, L0378: 1, L0653: 1, L0807: 1, L0657: 1, L0658: 1, L0540: 1, L0542: 1, L0531: 1, L0384: 1, L0809: 1, L0543: 1, L0647: 1, H0697: 1, H0593: 1, H0689: 1, H0435: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, H0539: 1, S0152: 1, H0134: 1, S0406: 1, H0555: 1, H0436: 1, L0740: 1, L0780: 1, L0731: 1, L0581: 1, L0608: 1, L0593: 1, S0194: 1, H0542: 1, S0424: 1 and H0506: 1.	1	
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2525	HUNAL39	559448	2535	830 - 862	5132			2, L0602: 2, H0555: 2, L0439: 2, L0750: 2, L0597: 2, H0136: 2, H0423: 2, H0624: 1, H0171: 1, H0717: 1, S0402: 1, H0294: 1, S0114: 1, S0116: 1, H0341: 1, S0212: 1, H0483: 1, H0664: 1, S0360: 1, S0046: 1, H0619: 1, H0411: 1, H0369: 1, S0222: 1, H0438: 1, H0486: 1, H0156: 1, H0318: 1, H0581: 1, H0046: 1, H0457: 1, H0564: 1, H0051: 1, H0416: 1, H0688: 1, H0644: 1, L0456: 1, H0135: 1, H0616: 1, H0059: 1, H0561: 1, S0344: 1, L0763: 1, L0646: 1, L0521: 1, L0766: 1, L0649: 1, L0789: 1, L0663: 1, L0438: 1, H0435: 1, S0406: 1, H0436: 1, L0612: 1, L0748: 1, L0751: 1, L0779: 1, L0731: 1, L0758: 1, L0759: 1, L0686: 1, S0436: 1, L0595: 1 and S0194: 1.		
2526	HUSAO04	877889	2536	3 - 1460	5133	Pro-131 to Glu-142.	AR089: 7, AR316: 7, AR060: 6 L0794: 6, L0758: 3, L0759: 3, H0661: 2, H0083: 2, H0551: 2, T0042: 2, L0773: 2, L0766: 2, L0809: 2, L0750: 2, L0596: 2, H0542: 2, H0265: 1, S0114: 1, H0341: 1, S0358: 1, H0393: 1, H0497: 1, H0559: 1, H0486: 1, H0013: 1, H0012: 1, H0373: 1, H0266: 1, H0615: 1, H0031: 1, H0644: 1, H0169: 1, H0040: 1, H0268: 1, H0412: 1, H0561: 1, H0647: 1, L0371: 1, L0800: 1, L0642: 1, L0765: 1, L0803: 1, L0650: 1, L0784: 1, L0789: 1, L0663: 1, S0374: 1, H0547:	12q13.11- 12q14.3	120140, 120140, 120140, 120140, 120140, 120140, 120140, 126337, 181430, 600808, 601284, 601769, 601769, 602116	

2527	HUSAO04	870791	2537	297 - 1463	5134	Pro-33 to Glu-44.	1, H0519: 1, S0330: 1, S0152: 1, H0521: 1, S0032: 1, L0748: 1, L0747: 1, L0780: 1, L0753: 1, L0755: 1, H0445: 1, L0592: 1, L0608: 1 and S0026: 1. AR089: 7, AR316: 7, AR060: 6 L0794: 6, L0758: 3, L0759: 3, H0661: 2, H0083: 2, H0551: 2, T0042: 2, L0773: 2, L0766: 2, L0809: 2, L0750: 2, L0596: 2, H0542: 2, H0265: 1, S0114: 1, H0341: 1, S0358: 1, H0393: 1, H0497: 1, H0559: 1, H0486: 1, H0013: 1, H0012: 1, H0373: 1, H0266: 1, H0615: 1, H0031: 1, H0644: 1, H0169: 1, H0040: 1, H0268: 1, H0412: 1, H0561: 1, H0647: 1, L0371: 1, L0800: 1, L0642: 1, L0765: 1, L0803: 1, L0650: 1, L0784: 1, L0789: 1, L0663: 1, S0374: 1, H0547: 1, H0519: 1, S0330: 1, S0152: 1, H0521: 1, S0032: 1, L0748: 1, L0747: 1, L0780: 1, L0753: 1, L0755: 1, H0445: 1, L0592: 1, L0608: 1 and S0026: 1. AR313: 17, AR089: 13, AR270: 12, AR312: 10, AR241: 10, AR182: 10, AR296: 9, AR060: 9, AR316: 8, AR269: 8, AR184: 8, AR267: 8, AR299: 8, AR052: 8, AR265: 8, AR285: 7, AR247: 7, AR293: 7, AR292: 7, AR096: 6, AR300: 6, AR286: 6, AR213: 6, AR291: 6, AR268: 6, AR298: 6,	12q13.11-12q14.3	120140, 120140, 120140, 120140, 120140, 126337, 181430, 600808, 601284, 601769, 601769, 602116
2528	HUSCA09	853417	2538	101 - 1633	5135	Thr-4 to Tyr-9, Arg-58 to Asp-65, Asp-81 to Lys-89, Val-98 to Lys-104, Arg-323 to Thr-329.	1, H0519: 1, S0330: 1, S0152: 1, H0521: 1, S0032: 1, L0748: 1, L0747: 1, L0780: 1, L0753: 1, L0755: 1, H0445: 1, L0592: 1, L0608: 1 and S0026: 1. AR313: 17, AR089: 13, AR270: 12, AR312: 10, AR241: 10, AR182: 10, AR296: 9, AR060: 9, AR316: 8, AR269: 8, AR184: 8, AR267: 8, AR299: 8, AR052: 8, AR265: 8, AR285: 7, AR247: 7, AR293: 7, AR292: 7, AR096: 6, AR300: 6, AR286: 6, AR213: 6, AR291: 6, AR268: 6, AR298: 6,		



2529	HUSCI01	740775	2539	205 - 255	5136		AR284: 6, AR033: 6, AR186: 6, AR053: 5, AR253: 5, AR309: 5, AR289: 5, AR310: 5, AR290: 5, AR238: 5, AR183: 5, AR229: 5, AR266: 5, AR177: 5, AR185: 5, AR248: 5, AR240: 4, AR294: 4, AR246: 4, AR282: 4, AR055: 4, AR295: 4, AR249: 4, AR233: 4, AR194: 3, AR251: 3, AR277: 3, AR231: 3, AR061: 3, AR283: 3, AR218: 3, AR227: 3, AR258: 3, AR226: 3, AR234: 3, AR237: 3, AR243: 2, AR175: 2, AR198: 2, AR219: 2, AR275: 2, AR232: 2, AR179: 2, AR314: 2, AR256: 2, AR274: 2, AR244: 2, AR259: 1, AR263: 1, AR104: 1 L0471: 2, H0038: 2, H0268: 2, H0556: 1, S0402: 1, H0341: 1, H0392: 1, H0486: 1, H0598: 1, L0633: 1, L0527: 1, L0517: 1 and H0444: 1. L0777: 6, L0766: 3, L0438: 3, L0662: 2, L0439: 2, L0779: 2, L0731: 2, H0402: 1, H0580: 1, H0581: 1, H0266: 1, S0003: 1, H0119: 1, H0268: 1, L0764: 1, L0661: 1, L0809: 1, L0647: 1, L0665: 1, L0352: 1, S0146: 1, L0748: 1, L0740: 1, L0758: 1, L0759: 1, S0260: 1 and S0276: 1.		
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2530	HUSGB23	704094	2540	168 - 281	5137	Arg-26 to Ser-37.	AR089: 5, AR316: 3, AR060: 2 H0038: 8, H0616: 5, L0758: 5, L0779: 4, L0794: 3, S0420: 2, H0013: 2, H0069: 2, H0253: 2, L0471: 2, H0264: 2, H0144: 2, L0439: 2, L0740: 2, L0745: 2, H0556: 1, S0134: 1, H0661: 1, S0418: 1, H0486: 1, H0244: 1, H0635: 1, H0581: 1, H0046: 1, S0250: 1, S0003: 1, H0553: 1, H0412: 1, H0623: 1, L0804: 1, L0790: 1, L0532: 1, L0438: 1, H0520: 1, H0521: 1, L0748: 1, L0754: 1, L0777: 1, L0753: 1, L0604: 1, L0594: 1 and H0423: 1.		
2531	HUSGI09	608133	2541	191 - 289	5138		H0571: 1 and H0412: 1.		
2532	HUSGQ57	610258	2542	73 - 177	5139		L0666: 3, H0156: 2, H0581: 2, L0803: 2, L0754: 2, L0777: 2, L0759: 2, S0436: 2, H0423: 2, H0657: 1, H0486: 1, L0586: 1, H0564: 1, H0628: 1, H0032: 1, H0674: 1, S0366: 1, H0090: 1, T0067: 1, H0412: 1, L0662: 1, L0650: 1, L0774: 1, L0789: 1, H0144: 1, S0148: 1, S0152: 1, H0696: 1, L0740: 1 and L0755: 1.		
2533	HUSGY15	759888	2543	643 - 711	5140		S0376: 1, H0580: 1, H0614: 1, H0284: 1, H0268: 1, H0412: 1, H0623: 1, T0042: 1, S0126: 1, H0539: 1, H0521: 1 and L0779: 1.		
2534	HUSHD41	866498	2544	227 - 445	5141	Asp-33 to Arg-40.	H0271: 5, H0083: 3, L0794: 3, H0656: 2, H0457: 2, H0179: 2, L0791: 2, H0521: 2, L0744: 2, H0707: 2, H0265: 1, H0556: 1, H0657: 1, H0449: 1, H0580: 1, S0046: 1, H0411: 1, H0437:	11	

2535	HUSHK65	847188	2545	812 - 2275	5142	<p>Ser-14 to Gly-28, Leu-30 to Ala-35, Pro-41 to Glu-54, Arg-89 to Glu-94, Ser-124 to Ala-131, Thr-142 to Thr-152, Pro-161 to Asp-172, Glu-203 to Trp-210, Cys-228 to Ser-238, Thr-296 to Trp-316, Pro-318 to Glu-325, Ser-347 to Tyr-354, Ala-441 to Ser-457, Ser-480 to Phe-486.</p>	<p>1, H0333: 1, H0486: 1, H0250: 1, S6028: 1, H0615: 1, H0628: 1, L0055: 1, H0040: 1, H0634: 1, S0144: 1, H0529: 1, L0769: 1, L0768: 1, L0766: 1, L0803: 1, L0653: 1, L0793: 1, L0666: 1, S0052: 1, H0689: 1, H0522: 1, H0436: 1, L0743: 1, L0749: 1, L0779: 1, H0445: 1 and H0542: 1.</p>	2q34	<p>100730, 118800, 123660, 135600, 157655, 186860, 201460, 205100, 262000, 601277, 601318</p>
							<p>L0740: 28, L0777: 15, L0731: 15, L0748: 14, L0747: 10, L0439: 8, L0750: 8, L0749: 7, L0756: 7, L0754: 6, H0622: 5, L0792: 5, H0090: 4, L0769: 4, H0135: 3, S0344: 3, L0662: 3, L0804: 3, L0805: 3, L0438: 3, L0597: 3, S0046: 2, H0333: 2, H0013: 2, H0427: 2, H0266: 2, H0551: 2, H0623: 2, L0761: 2, L0768: 2, L0803: 2, L0806: 2, L0789: 2, L0666: 2, H0547: 2, H0521: 2, H0522: 2, H0555: 2, S0206: 2, L0779: 2, L0759: 2, L0588: 2, L0599: 2, H0624: 1, H0663: 1, S0360: 1, S0045: 1, H0393: 1, S0278: 1, H0437: 1, H0431: 1, T0039: 1, H0575: 1, H0050: 1, L0471: 1, H0620: 1, S0051: 1, H0267: 1, H0039: 1, H0030: 1, H0316: 1, H0412: 1, H0056: 1, S0112: 1, L0564: 1, H0561: 1, H0641: 1, S0142: 1, L0770: 1, L0772: 1, L0800: 1, L0648: 1, L0794: 1, L0381: 1, L0375: 1, L0776: 1, L0807: 1, L0809: 1, L0790: 1, L0791: 1, H0144: 1, H0693: 1, L0352: 1, S0330: 1, S0378: 1, H0134: 1, L0741: 1, L0786: 1,</p>		

2536	HUSIK45	853932	2546	204 - 305	5143			S0260: 1, L0592: 1, L0581: 1, H0543: 1 and H0506: 1. AR089: 2, AR316: 1 H0551: 7, S0418: 5, L0776: 5, L0105: 3, H0171: 2, S0214: 2, H0685: 1, H0657: 1, S0116: 1, H0411: 1, S0222: 1, H0581: 1, S0003: 1, L0455: 1, H0040: 1, H0412: 1, T0069: 1, T0041: 1, H0281: 1, L0369: 1, L0766: 1, L0804: 1, L0659: 1, L0636: 1, S0052: 1, H0144: 1, H0435: 1, S0152: 1, H0525: 1, S0314: 1, L0752: 1, L0757: 1, H0343: 1, L0362: 1 and H0543: 1.		
2537	HUSIO57	886206	2547	177 - 302	5144	Ala-21 to Ser-27, Pro-33 to Pro-41.		AR089: 4, AR316: 4, AR060: 3 L0742: 10, L0731: 4, L0748: 3, L0747: 3, L0758: 3, L0763: 2, L0764: 2, L0766: 2, L0439: 2, H0556: 1, S0376: 1, S0222: 1, H0156: 1, S0010: 1, S0474: 1, H0123: 1, H0012: 1, H0083: 1, H0328: 1, H0688: 1, H0412: 1, S0210: 1, L0644: 1, L0662: 1, L0806: 1, L0776: 1, L0655: 1, L0665: 1, L0438: 1, H0659: 1, S0380: 1, S0032: 1 and H0543: 1.	lp36.l3-q31.3	115665, 120550, 120570, 120575, 130500, 133200, 138140, 167410, 172430, 600975
2538	HUSIP17	608647	2548	301 - 381	5145	Asp-17 to Lys-25.		H0412: 1		
2539	HUSIR70	838163	2549	281 - 361	5146			AR089: 17, AR316: 13, AR060: 10 H0266: 17, L0777: 16, L0439: 13, L0748: 10, L0758: 9, L0744: 8, L0776: 7, L0754: 7, L0666: 6, S0360: 5, S0438: 5, S0126: 5, S0436: 5, L0599: 5, H0265: 4, S0040: 4, H0271: 4, H0644: 4, L0769: 4, L0764: 4, L0438: 4, H0522: 4, S0406: 4.	20p11.22- p11.21	

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2540	HUSXP50	561962	2550	42 - 200	5147	Glu-6 to Thr-12, Ser-46 to Ser-52.	1, L0652: 1, L0653: 1, L0807: 1, L0657: 1, L0659: 1, L0809: 1, L0367: 1, L0789: 1, L0664: 1, L0665: 1, H0701: 1, S0374: 1, H0689: 1, H0690: 1, H0435: 1, H0659: 1, H0648: 1, H0672: 1, S0044: 1, L0611: 1, S0390: 1, S0206: 1, S0032: 1, L0786: 1, L0779: 1, L0753: 1, L0757: 1, S0031: 1, H0445: 1, L0581: 1, S0194: 1 and H0506: 1. H0550: 2, H0413: 1 and H0696: 1.	1q12-lq21.2	104770, 107670, 110700, 145001, 146760, 146790, 159001, 191315, 600897, 601412, 601652, 601863, 602491
2541	HUSXY93	658733	2551	148 - 207	5148		AR089: 10, AR316: 7, AR060: 5 S0358: 3, H0013: 3, L0770: 3, L0591: 3, H0486: 2, H0553: 2, H0412: 2, L0764: 2, L0655: 2, H0521: 2, L0750: 2, L0752: 2, L0592: 2, H0624: 1, H0675: 1, H0339: 1, S6022: 1, H0592: 1, H0586: 1, H0587: 1, H0492: 1, L0105: 1, H0309: 1, H0674: 1, H0413: 1, H0494: 1, S0448: 1, H0529: 1, L0451: 1, L0769: 1, L0643: 1, L0773: 1, L0648: 1, L0662: 1, L0659: 1, L0809: 1, L0666: 1, S0374: 1, H0520: 1, H0648: 1, S0378: 1, H0479: 1, L0748: 1, L0749: 1 and L0596: 1.	7p21-p15.3	153880, 601622, 601649
2542	HUSYG26	709709	2552	421 - 630	5149	Thr-40 to Asn-63.	AR089: 21, AR316: 16, AR060: 11 L0794: 10, H0617: 7, L0769: 5, L0740: 5, H0253: 4, H0620:		

2543	HUVCQ68	561963	2553	265 - 342	5150			4, L0803: 4, L0742: 4, L0743: 4, H0550: 3, L0468: 3, L0766: 3, L0809: 3, L0746: 3, H0486: 2, H0599: 2, H0545: 2, H0628: 2, H0413: 2, L0800: 2, L0771: 2, L0806: 2, S0126: 2, H0522: 2, L0747: 2, L0779: 2, L0777: 2, L0755: 2, H0663: 1, S0360: 1, H0580: 1, S0132: 1, H0618: 1, S0049: 1, H0012: 1, H0622: 1, H0606: 1, H0124: 1, H0634: 1, H0412: 1, H0056: 1, H0623: 1, H0509: 1, S0150: 1, L0763: 1, L0770: 1, L0761: 1, L0772: 1, L0764: 1, L0767: 1, L0776: 1, L0657: 1, L0659: 1, L0782: 1, L0789: 1, L0790: 1, L0565: 1, S0152: 1, H0521: 1, L0750: 1, L0786: 1, L0757: 1, S0192: 1, S0276: 1, H0542: 1 and H0423: 1.	2p12-pl1.2	147200, 178640, 216900
								AR089: 27, AR316: 27, AR060: 27 H0617: 8, S0476: 7, H0494: 7, L0755: 6, H0657: 4, S0360: 4, S0278: 4, S0344: 4, L0766: 4, L0750: 4, L0779: 4, H0686: 3, H0254: 3, S0358: 3, S0444: 3, H0596: 3, S0003: 3, H0553: 3, H0090: 3, H0056: 3, L0761: 3, L0775: 3, L0776: 3, L0514: 3, H0672: 3, L0748: 3, L0599: 3, H0542: 3, S0134: 2, H0650: 2, H0656: 2, H0341: 2, H0255: 2, H0402: 2, H0638: 2, S0442: 2, S0408: 2, H0637: 2, L0717: 2, H0587: 2, H0013: 2, H0318: 2, H0597: 2, H0046: 2, H0615: 2, H0031: 2, H0032: 2, H0616: 2, H0641: 2, S0422: 2, L0770: 2.		

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2544	HUV	2554	27 - 143	5151	2, L0768: 2, L0774: 2, L0806: 2, L0659: 2, L0518: 2, L0663: 2, H0521: 2, H0696: 2, S0406: 2, L0754: 2, L0749: 2, L0777: 2, L0752: 2, L0753: 2, S0434: 2, S0436: 2, L0362: 2, L0603: 2, H0665: 2, H0422: 2, S0452: 2, H0170: 1, H0171: 1, H0556: 1, H0685: 1, S0116: 1, H0484: 1, H0661: 1, H0459: 1, L0481: 1, H0193: 1, S0418: 1, H0580: 1, H0722: 1, S0132: 1, H0282: 1, H0497: 1, H0486: 1, T0114: 1, H0635: 1, H0004: 1, H0581: 1, H0421: 1, S0049: 1, H0085: 1, H0123: 1, H0620: 1, H0014: 1, S0314: 1, S0214: 1, H0252: 1, H0622: 1, H0644: 1, H0606: 1, L0055: 1, H0673: 1, H0674: 1, H0124: 1, H0634: 1, H0264: 1, H0272: 1, H0117: 1, H0512: 1, H0366: 1, S0372: 1, S0438: 1, S0440: 1, H0509: 1, H0130: 1, S0144: 1, S0142: 1, H0695: 1, L0763: 1, L0769: 1, L0637: 1, L0646: 1, L0800: 1, L0645: 1, L0773: 1, L0662: 1, L5564: 1, L0381: 1, L0499: 1, L0497: 1, L0375: 1, L0651: 1, L0655: 1, L0493: 1, L0636: 1, L0782: 1, L0783: 1, L0530: 1, L0788: 1, L0664: 1, H0144: 1, S0374: 1, H0726: 1, H0520: 1, H0689: 1, H0690: 1, H0658: 1, H0670: 1, H0660: 1, S0328: 1, S0330: 1, S0136: 1, H0436: 1, L0751: 1, L0780: 1, L0758: 1, L0759: 1, H0445: 1, H0543: 1, S0398: 1, L0600: 1 and H0352: 1.	S0002: 2, H0056: 1 and
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2545	HUVEG53	797556	2555	366 - 434	5152				H0595: 1. AR089: 10, AR316: 9, AR060: 7 L0766: 5, L0731: 5, L0777: 4, H0149: 2, S0422: 2, L0776: 2, L0759: 2, H0341: 1, S0420: 1, H0575: 1, S0665: 1, H0030: 1, H0068: 1, H0090: 1, H0264: 1, H0056: 1, T0042: 1, H0625: 1, S0344: 1, H0529: 1, L0800: 1, L0771: 1, L0648: 1, L0806: 1, L0807: 1, L0665: 1, H0144: 1, H0658: 1, H0670: 1, H0521: 1, L0740: 1, L0601: 1 and S0192: 1.			
2546	HWA AH11	815548	2556	479 - 757	5153	His-81 to Ser-92.			AR060: 13, AR316: 13, AR089: 13 L0439: 6, L0662: 5, L0438: 5, H0556: 3, L0766: 3, H0521: 3, L0748: 3, L0751: 3, L0599: 3, H0370: 2, H0618: 2, H0494: 2, L0805: 2, L0659: 2, L0809: 2, L0792: 2, H0539: 2, L0777: 2, L0731: 2, L0757: 2, S0436: 2, H0506: 2, H0158: 1, H0341: 1, S0212: 1, H0484: 1, H0663: 1, H0662: 1, S0420: 1, S0376: 1, H0580: 1, H0549: 1, H0427: 1, L0021: 1, H0581: 1, H0544: 1, H0545: 1, H0009: 1, H0083: 1, H0622: 1, S0036: 1, H0634: 1, H0616: 1, L0351: 1, S0150: 1, H0646: 1, S0142: 1, S0344: 1, L0769: 1, L5566: 1, L0641: 1, L0643: 1, L0645: 1, L0649: 1, L0386: 1, L0653: 1, L0657: 1, L0783: 1, L0789: 1, L0793: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, S0374: 1, L0565: 1, H0689: 1, H0684: 1, H0523:			

2547	HWAAQ28	806588	2557	443 - 706	5154	Met-1 to Arg-6, Arg-58 to Arg-63.	1, L0754: 1, L0747: 1, L0779: 1, L0601: 1 and S0446: 1, AR060: 170, AR316: 136, AR089: 100 L0748: 21, L0747: 14, L0758: 13, L0750: 12, L0740: 10, L0439: 7, L0751: 7, H0622: 6, H0553: 6, H0521: 6, H0549: 5, H0046: 5, H0494: 5, L0766: 5, L0774: 5, L0776: 5, L0755: 5, L0731: 5, H0265: 4, H0657: 4, S0376: 4, H0580: 4, H0013: 4, H0581: 4, H0169: 4, H0038: 4, L0770: 4, L0764: 4, L0662: 4, L0741: 4, H0445: 4, L0588: 4, L0595: 4, H0136: 4, S0358: 3, H0486: 3, H0251: 3, H0597: 3, H0620: 3, H0510: 3, H0135: 3, H0551: 3, L0771: 3, L0775: 3, S0374: 3, H0539: 3, L0756: 3, L0757: 3, L0599: 3, H0624: 2, H0556: 2, S0040: 2, S0418: 2, S0420: 2, H0351: 2, S0278: 2, S0222: 2, H0392: 2, H0586: 2, H0333: 2, H0618: 2, L0471: 2, S0388: 2, L0487: 2, T0041: 2, H0509: 2, L0638: 2, H0519: 2, S0126: 2, H0658: 2, H0670: 2, L0602: 2, H0518: 2, S0152: 2, S0037: 2, S3014: 2, L0744: 2, L0777: 2, L0596: 2, L0589: 2, L0605: 2, L0590: 2, L0362: 2, H0543: 2, H0423: 2, S0424: 2, H0171: 1, H0686: 1, S0430: 1, H0656: 1, S0116: 1, H0484: 1, H0483: 1, H0241: 1, H0638: 1, S0046: 1, H0441: 1, H0370: 1, H0438: 1, H0592: 1, H0642: 1, T0039: 1, T0114: 1, S0280: 1, L0021: 1, H0042: 1,	20q13.2- 20q13.3	118504, 118504, 131242, 139320, 139320, 139320, 139320, 602025, 602235
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2548	HWAAAY60	745917	2558	488 - 565	5155	<p>S0474: 1, H0421: 1, H0052: 1, H0309: 1, T0110: 1, L0040: 1, H0231: 1, H0327: 1, H0544: 1, H0439: 1, H0457: 1, H0178: 1, H0081: 1, H0012: 1, S0051: 1, H0594: 1, H0179: 1, H0271: 1, H0188: 1, H0290: 1, H0615: 1, H0428: 1, H0039: 1, H0213: 1, L0142: 1, H0628: 1, H0673: 1, S0036: 1, H0090: 1, H0040: 1, H0413: 1, T0004: 1, L0351: 1, L0564: 1, H0022: 1, T0042: 1, H0641: 1, S0144: 1, S0142: 1, L0763: 1, L0769: 1, L0761: 1, L0667: 1, L0772: 1, L0372: 1, L0641: 1, L0767: 1, L0768: 1, L0364: 1, L0803: 1, L0375: 1, L0376: 1, L0655: 1, L0513: 1, L0659: 1, L0526: 1, L0809: 1, L0647: 1, L0666: 1, L0663: 1, L0665: 1, S0216: 1, H0520: 1, H0690: 1, H0435: 1, H0660: 1, H0672: 1, S0378: 1, S0454: 1, H0522: 1, H0696: 1, S0406: 1, S0206: 1, L0752: 1, L0759: 1, S0026: 1, S0276: 1, S0196: 1 and S0446: 1.</p> <p>L0747: 9, L0777: 8, L0794: 7, L0754: 5, L0749: 5, L0666: 4, S0406: 4, L0748: 4, L0757: 4, H0046: 3, L0803: 3, L0805: 3, L0751: 3, H0556: 2, S0360: 2, H0581: 2, L0770: 2, L0769: 2, L0771: 2, L0773: 2, L0809: 2, L0665: 2, H0659: 2, H0696: 2, L0779: 2, L0758: 2, L0759: 2, L0599: 2, H0170: 1, T0002: 1, S0430: 1, S0418: 1, S0420: 1, H0497: 1, H0156: 1, L0471: 1, T0006: 1, H0553: 1, H0038: 1.</p>	1	
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2549	HWABR43	823367	2559	258 - 353	5156	Thr-19 to Phe-24.		L0748: 5, H0574: 1, H0581: 1 and L0749: 1.			
2550	HWACH06	799620	2560	318 - 365	5157	Pro-2 to His-8.		AR060: 2, AR316: 2 S0420: 1, S0376: 1, H0632: 1, H0581: 1, H0196: 1, H0052: 1, H0024: 1, H0014: 1, H0135: 1, H0561: 1, S0374: 1, H0519: 1, H0436: 1, L0748: 1 and L0777: 1.	1		
2551	HWACZ33	827311	2561	110 - 298	5158	Leu-19 to Ala-50.		H0556: 1, H0618: 1, H0581: 1, L0761: 1, H0539: 1 and H0522: 1.			
2552	HWADV90	897732	2562	314 - 382	5159			AR089: 25, AR316: 25, AR060: 25 H0581: 1, L0766: 1 and H0542: 1.			
2553	HWAEBS2	873207	2563	212 - 1429	5160	Leu-51 to Gly-56, Pro-64 to Gly-78, Gly-92 to Pro-106, Pro-114 to Ser-119, Ser-123 to Gln-129, Ser-138 to His-143, Ala-161 to Gly-173, Pro-175 to Ala-215, Ser-220 to Ser-228, Pro-235 to Gln-245, Thr-252 to Asn-261, His-269 to Thr-287, Pro-289 to Ser-296,		AR089: 6, AR316: 5, AR060: 5 L0748: 9, L0794: 8, L0754: 7, L0803: 5, L0776: 4, L0758: 4, L0809: 3, L0747: 3, L0731: 3, H0637: 2, H0442: 2, H0288: 2, L0769: 2, L0761: 2, H0144: 2, L0740: 2, L0745: 2, H0445: 2, L0596: 2, T0002: 1, H0686: 1, T0049: 1, S0212: 1, H0663: 1, S0376: 1, S0476: 1, H0370: 1, T0114: 1, H0013: 1, H0097: 1, L0105: 1, H0581: 1, H0039: 1.			

						Gly-306 to Gly-316, Pro-319 to Gly-341, Ser-364 to Arg-373, Ser-381 to Pro-389.	1, H0031: 1, H0644: 1, H0135: 1, H0488: 1, H0269: 1, H0646: 1, L0369: 1, L0800: 1, L0764: 1, L0662: 1, L0768: 1, L0766: 1, L0515: 1, L0659: 1, L0788: 1, L0666: 1, L0663: 1, L0664: 1, T0068: 1, H0682: 1, H0684: 1, H0522: 1, H0555: 1, S3014: 1, S0027: 1, S0032: 1, L0749: 1, L0756: 1, L0780: 1, L0755: 1, H0667: 1, H0423: 1, S0398: 1, H0677: 1, S0456: 1 and L0600: 1.			
2554	HWBAK71	853581	2564	260 - 313	5161		AR060: 889, AR316: 732, AR089: 579 H0580: 1			
2555	HWBBU75	780360	2565	783 - 938	5162	Ser-17 to Gly-22, Leu-34 to Ala-42.	H0521: 7, H0580: 5, L0665: 4, H0457: 3, L0766: 3, L0745: 3, L0761: 2, L0806: 2, L0789: 2, L0750: 2, H0542: 2, H0650: 1, H0656: 1, H0581: 1, H0271: 1, H0553: 1, H0413: 1, H0641: 1, S0002: 1, L0774: 1, H0660: 1, H0555: 1, L0753: 1 and H0423: 1.			
2556	HWBCN81	853580	2566	615 - 797	5163	Ser-32 to Thr-43.	AR162: 14, AR161: 13, AR163: 13, AR313: 11, AR089: 11, AR165: 9, AR229: 9, AR164: 9, AR166: 9, AR264: 8, AR184: 8, AR096: 7, AR177: 7, AR293: 6, AR183: 6, AR316: 6, AR248: 6, AR259: 6, AR296: 6, AR219: 5, AR314: 5, AR173: 5, AR249: 5, AR060: 5, AR290: 5, AR315: 5, AR268: 5, AR174: 5, AR182: 5, AR181: 5,			

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2557	HWBCP16	647378	2567	140 - 304	5164			AR060: 42, AR316: 33, AR089: 24 H0580: 1			
2558	HWBCX93	853418	2568	261 - 353	5165			AR089: 9, AR316: 7, AR060: 6 H0457: 10, H0550: 5, H0436: 5, H0549: 4, H0616: 4, H0556: 3, H0580: 3, S0007: 3, H0521: 3, L0747: 3, H0295: 2, T0040: 2, L0809: 2, L0789: 2, H0658: 2, L0731: 2, L0596: 2, H0543: 2, S0040: 1, S0282: 1, H0662: 1, H0402: 1, H0125: 1, L0534: 1, L0562: 1, S0356: 1, S0358: 1, S0046: 1, H0559: 1, H0069: 1, H0599: 1, H0618: 1, H0318: 1, H0581: 1, H0546: 1, H0123: 1, H0083: 1, H0266: 1, H0687: 1, H0284: 1, H0124: 1, H0038: 1, H0551: 1, H0623: 1, S0038: 1, T0041: 1, S0150: 1, S0002: 1, L0761: 1, L0627: 1, L0662: 1, L0666: 1, H0547: 1, H0519: 1, H0539: 1, S0037: 1, S0206: 1, L0748: 1, L0777: 1, H0595: 1 and L0593: 1.			
2559	HWBEF34	799430	2569	134 - 268	5166			AR060: 2, AR316: 2, AR089: 2 H0556: 1, S0114: 1, H0580: 1, H0351: 1, S0222: 1, H0318: 1, L0655: 1, H0521: 1 and H0445: 1.			

2560	HWFB23	853319	2570	40 - 156	5167		H0052: 6, H0171: 3, H0486: 3, H0624: 2, H0013: 2, L0776: 2, L0527: 2, H0539: 2, L0754: 2, L0756: 2, L0759: 2, H0542: 2, H0170: 1, H0341: 1, H0305: 1, H0393: 1, H0427: 1, H0036: 1, H0318: 1, H0581: 1, H0596: 1, H0597: 1, H0615: 1, H0090: 1, H0591: 1, H0040: 1, T0004: 1, S0422: 1, L0766: 1, L0774: 1, L0783: 1, L0790: 1, L0663: 1, H0593: 1, S0126: 1, S0328: 1, S0330: 1, H0521: 1, S0406: 1, H0478: 1, H0447: 1, L0744: 1, L0758: 1, S0031: 1, H0445: 1 and S0412: 1.		
2561	HWFB140	826791	2571	315 - 368	5168		H0635: 1, T0004: 1, S0464: 1, L0800: 1, L0662: 1 and L0666: 1.		
2562	HWHG77	788555	2572	660 - 764	5169		H0592: 2, H0586: 2, H0601: 1, H0600: 1 and H0587: 1.		
2563	HWHG09	702032	2573	268 - 453	5170		AR089: 18, AR316: 16, AR060: 14 H0232: 2, S0380: 2, L0748: 2, L0740: 2, S0358: 1, S0360: 1, H0586: 1, H0486: 1, H0575: 1, H0263: 1, H0615: 1, H0031: 1, S0438: 1, L0766: 1, L0776: 1, L0543: 1, H0144: 1, L0356: 1, L0745: 1, L0746: 1, L0758: 1, S0434: 1 and H0543: 1.	12q14.1-q15	181430, 600698, 600698, 600698, 600698, 600808, 602116
2564	HWHA21	638966	2574	213 - 398	5171		AR060: 3, AR316: 2 H0587: 3 and H0586: 1.		
2565	HWHPU44	778090	2575	166 - 288	5172		AR060: 1 H0587: 1, L0653: 1, L0659: 1 and L0759: 1.	8q24.1-q24.2	188450, 188450, 188450
2566	HWHRCS1	853421	2576	148 - 327	5173	Asp-28 to Lys-35.	AR316: 2, AR089: 2, AR060: 2 S0358: 7, H0521: 7, H0271:		



0906080701

2567	HWLAT50	840753	2577	2741 - 2776	5174				6, H0598: 6, L0532: 5, H0555: 5, H0574: 4, H0581: 4, L0766: 4, L0754: 4, S0011: 4, H0543: 4, H0556: 3, S0442: 3, H0370: 3, H0587: 3, H0097: 3, H0673: 3, L0662: 3, L0803: 3, L0518: 3, L2269: 3, L0758: 3, H0293: 3, H0265: 2, S0114: 2, S0444: 2, H0575: 2, H0318: 2, H0179: 2, H0628: 2, H0264: 2, L0369: 2, L0561: 2, L0809: 2, S0152: 2, S0028: 2, L0745: 2, L0592: 2, H0624: 1, T0002: 1, S0040: 1, S0342: 1, H0294: 1, S0218: 1, S0212: 1, H0402: 1, S0360: 1, H0580: 1, H0722: 1, H0339: 1, S0046: 1, S0476: 1, H0619: 1, H0549: 1, H0550: 1, S0222: 1, H0331: 1, H0632: 1, H0486: 1, H0069: 1, H0427: 1, H0599: 1, H0036: 1, H0590: 1, H0014: 1, H0071: 1, H0355: 1, H0416: 1, L0177: 1, S0250: 1, S0003: 1, H0252: 1, H0328: 1, T0023: 1, L0483: 1, H0553: 1, L0142: 1, H0674: 1, H0388: 1, H0068: 1, H0316: 1, H0551: 1, T0004: 1, H0429: 1, H0625: 1, H0561: 1, S0440: 1, H0538: 1, S0002: 1, L0770: 1, L0639: 1, L0800: 1, L0768: 1, L0551: 1, L0525: 1, L0527: 1, L0657: 1, L0526: 1, L0530: 1, L0367: 1, L0791: 1, L0666: 1, L0665: 1, S0330: 1, H0436: 1, H0576: 1, H0345: 1, H0665: 1, S0196: 1 and H0422: 1.	AR089: 27, AR316: 23, AR060: 20 L0747: 10, L0439: 6, L0595: 12
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[illegible]

2568	HWLBO67	834315	2578	42 - 161	5175				1, L0663: 1, L0664: 1, L0665: 1, H0691: 1, L0438: 1, H0519: 1, S0126: 1, H0672: 1, S0330: 1, H0539: 1, S0152: 1, H0522: 1, S0406: 1, H0552: 1, S3012: 1, S3014: 1, L0742: 1, L0750: 1, L0756: 1, L0777: 1, L0592: 1, L0604: 1, S0242: 1, S0196: 1 and H0352: 1.		
2569	HWLGP26	834770	2579	1091 - 1306	5176	Pro-26 to Met-35.			S0374: 1 AR089: 3, AR316: 2, AR060: 2 L0766: 5, L0803: 5, H0551: 2, L0794: 2, H0435: 2, L0756: 2, L0731: 2, H0585: 1, S0212: 1, S0282: 1, L0534: 1, S0354: 1, H0486: 1, H0014: 1, H0354: 1, H0290: 1, H0644: 1, H0135: 1, S0150: 1, H0647: 1, L0369: 1, L0640: 1, L0763: 1, L0770: 1, L0646: 1, L0771: 1, L0804: 1, L0784: 1, L0528: 1, L0789: 1, L0790: 1, L0792: 1, H0658: 1, S0037: 1, L0749: 1, L0758: 1 and H0543: 1.	7p13	138079, 138079, 165240, 165240, 165240, 180104, 203740, 219800, 261670, 601649
2570	HWLHO31	837480	2580	183 - 215	5177				AR060: 2, AR316: 1 L0749: 3, S0354: 2, H0050: 1 and L0602: 1.	8	
2571	HWLIL31	793698	2581	531 - 650	5178				L0777: 3, L0666: 2, L0750: 2, S0110: 1, S0358: 1, H0251: 1, T0006: 1, L0364: 1, L0659: 1, L0809: 1, H0659: 1, S0378: 1, L0779: 1, L0731: 1 and S0026: 1.		
2572	HWLIN08	800626	2582	594 - 689	5179	Lys-25 to Ser-30.			AR060: 33, AR316: 31, AR089: 30 L0759: 5, L0783: 4, L0750: 4, L0769: 3, L0774: 3, L0748: 3, L0747: 3, L0731: 3, S0358:		

2573	HWLRE03	831198	2583	2526 - 2588	5180			2, S0408: 2, H0031: 2, L0639: 2, L0775: 2, H0547: 2, L0754: 2, L0749: 2, L0779: 2, H0295: 1, H0341: 1, H0484: 1, S0444: 1, S0360: 1, S0476: 1, H0549: 1, H0550: 1, H0586: 1, H0574: 1, L0622: 1, H0581: 1, H0083: 1, H0239: 1, H0288: 1, H0412: 1, H0100: 1, T0042: 1, H0494: 1, S0144: 1, L0763: 1, L0766: 1, L0657: 1, L0659: 1, S0052: 1, S0428: 1, H0658: 1, S0328: 1, L0755: 1, H0343: 1 and H0707: 1.		
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2574	HWTAM38	602274	2584	377 - 598	5181	Pro-27 to Lys-32.			L0771: 5, L0766: 3, H0031: 2, L0794: 2, L0599: 2, H0423: 2, H0265: 1, S0360: 1, T0008: 1, H0042: 1, H0318: 1, H0545: 1, H0014: 1, L0662: 1, L0804: 1, L0805: 1, S0216: 1, L0438: 1, H0659: 1, L0757: 1 and H0352: 1.			
2575	HWTAW58	793424	2585	1523 - 1564	5182	Gly-1 to Lys-6.			AR089: 14, AR316: 11, AR060: 8 L0747: 8, L0758: 8, L0748: 7, L0766: 5, L0776: 4, H0650: 3, H0657: 3, S0420: 3, H0581: 3, H0014: 3, H0670: 3, L0731: 3, S0192: 3, S0040: 2, H0341: 2, H0486: 2, H0575: 2, H0622: 2, H0646: 2, L0770: 2, L0662: 2, L0794: 2, L0666: 2, L0663: 2, H0435: 2, L0741: 2, L0743: 2, L0754: 2, L0752: 2, L0755: 2, L0599: 2, L0604: 2, L0361: 2, H0543: 2, H0170: 1, H0583: 1, S0212: 1, H0664: 1, S0358: 1, H0580: 1, S0007: 1, S0132: 1, H0645: 1, L0717: 1, H0437: 1, S6014: 1, H0431: 1, H0587: 1, H0642: 1, H0013: 1, H0052: 1, H0251: 1, L0040: 1, H0046: 1, H0123: 1, S0051: 1, H0510: 1.			

2576	HWTBB42	603089	2586	33 - 65	5183				1, H0375: 1, H0266: 1, H0615: 1, H0553: 1, H0644: 1, H0124: 1, S0036: 1, H0090: 1, H0040: 1, H0551: 1, H0334: 1, H0509: 1, H0633: 1, H0649: 1, S0422: 1, H0529: 1, L0369: 1, L0761: 1, L0646: 1, L0764: 1, L0648: 1, L0768: 1, L0649: 1, L0774: 1, L0805: 1, L0653: 1, L0606: 1, L0657: 1, L0659: 1, L0809: 1, L0530: 1, L0647: 1, L0791: 1, L0532: 1, L0665: 1, H0144: 1, H0702: 1, H0547: 1, S0126: 1, H0682: 1, H0539: 1, H0521: 1, H0555: 1, H0626: 1, S0206: 1, L0756: 1, H0665: 1, S0194: 1, S0452: 1 and H0352: 1.		
2577	HWTBC75	855978	2587	228 - 362	5184	Arg-32 to Trp-42.			H0352: 1 AR089: 14, AR316: 11, AR060: 8 L0439: 14, L0438: 8, S0007: 7, L0803: 7, L0779: 7, L0794: 6, L0766: 6, L0748: 6, L0756: 6, L0731: 6, L0809: 5, L0747: 5, L0749: 5, L0485: 4, L0717: 3, L0805: 3, L0776: 3, L0789: 3, L0751: 3, L0777: 3, L0752: 3, L0759: 3, H0638: 2, S0346: 2, H0024: 2, S0003: 2, L0762: 2, L0770: 2, L0764: 2, L0655: 2, L0758: 2, L0592: 2, H0624: 1, H0170: 1, H0662: 1, S0360: 1, H0393: 1, L0394: 1, S0222: 1, H0486: 1, H0042: 1, H0575: 1, T0110: 1, H0546: 1, H0057: 1, S0051: 1, H0083: 1, S0214: 1, H0615: 1, H0622: 1, H0124: 1, H0163: 1, H0100: 1, H0561: 1, H0132: 1, L0446: 1, L0638: 1, L0662: 1, L0804: 1, L0774:		

2578	HWTBI25	637736	2588	197 - 298	5185	Pro-27 to Tyr-33.	1, L0775: 1, L0657: 1, L0636: 1, L0367: 1, L0663: 1, H0520: 1, H0547: 1, S0126: 1, H0690: 1, H0658: 1, H0648: 1, S0328: 1, S0330: 1, H0521: 1, H0436: 1, L0750: 1, L0780: 1, L0755: 1, L0757: 1, H0445: 1, L0589: 1, L0593: 1, L0595: 1, L0366: 1, H0668: 1, H0665: 1, S0242: 1 and H0352: 1.		
2579	HWTBL86	791720	2589	2270 - 2386	5186		AR060: 22, AR316: 19, AR089: 15 H0352: 2 and L0352: 1. AR089: 15, AR316: 13, AR060: 11 H0556: 8, L0439: 7, L0779: 7, L0766: 6, L0803: 6, H0013: 5, L0758: 4, H0624: 3, H0575: 3, L0774: 3, L0748: 3, H0265: 2, H0123: 2, H0622: 2, H0040: 2, L0761: 2, L0804: 2, L0805: 2, L0438: 2, H0547: 2, H0660: 2, L0751: 2, L0747: 2, L0749: 2, L0756: 2, L0777: 2, L0599: 2, L0361: 2, H0352: 2, H0171: 1, L0615: 1, H0686: 1, H0717: 1, S0134: 1, H0650: 1, H0657: 1, H0656: 1, S0418: 1, S0420: 1, S0358: 1, S0007: 1, H0208: 1, S0046: 1, H0351: 1, H0587: 1, H0486: 1, H0270: 1, L0021: 1, H0618: 1, S0010: 1, H0318: 1, H0581: 1, H0194: 1, H0086: 1, H0178: 1, H0563: 1, H0050: 1, H0024: 1, H0373: 1, T0010: 1, H0292: 1, H0615: 1, H0644: 1, H0135: 1, H0090: 1, H0591: 1, H0087: 1, H0380: 1, H0100: 1, L0564: 1, T0041: 1, L0770: 1, L0769: 1, L0800: 1, L0764: 1.	20	

2580	HWTBX66	732187	2590	261 - 1076	5187	Glu-27 to Lys-35, Arg-48 to Val-53, Ala-57 to Ala-69.	1, L0521: 1, L0794: 1, L0649: 1, L0381: 1, L0775: 1, L0651: 1, L0378: 1, L0776: 1, L0655: 1, L0661: 1, L0657: 1, L0659: 1, L0789: 1, L0790: 1, L4501: 1, L0666: 1, S0126: 1, H0682: 1, H0658: 1, H0670: 1, S0328: 1, S0330: 1, H0521: 1, H0696: 1, S0404: 1, H0436: 1, S3012: 1, S0037: 1, L0743: 1, L0740: 1, L0754: 1, L0752: 1, L0759: 1, H0667: 1, S0194: 1, H0543: 1, H0423: 1 and S0424: 1.		
							AR204: 220, AR205: 174, AR060: 161, AR244: 155, AR104: 155, AR243: 149, AR232: 149, AR192: 147, AR186: 142, AR185: 137, AR312: 134, AR274: 133, AR206: 132, AR246: 130, AR273: 129, AR299: 127, AR039: 125, AR177: 125, AR194: 120, AR313: 119, AR300: 118, AR179: 117, AR061: 115, AR175: 115, AR291: 114, AR295: 114, AR241: 113, AR096: 112, AR282: 111, AR052: 110, AR198: 108, AR251: 107, AR285: 106, AR286: 104, AR309: 104, AR316: 104, AR219: 104, AR284: 102, AR089: 101, AR266: 100, AR033: 100, AR289: 99, AR227: 99, AR184: 97, AR271: 97, AR233: 96, AR182: 95, AR202: 95, AR247: 94, AR256: 94, AR226: 92, AR298: 89, AR296: 88, AR294: 86.	2	



									AR275: 86, AR259: 86, AR055: 85, AR053: 83, AR238: 82, AR240: 82, AR310: 80, AR218: 79, AR283: 78, AR213: 76, AR293: 75, AR229: 72, AR290: 70, AR234: 70, AR265: 70, AR267: 69, AR249: 68, AR263: 66, AR183: 66, AR268: 66, AR270: 65, AR277: 64, AR237: 64, AR258: 62, AR292: 60, AR269: 58, AR280: 56, AR315: 54, AR248: 54, AR253: 53, AR281: 50, AR314: 49, AR231: 49 S0468: 1, L0770: 1 and H0352: 1.				
2581	HYAAC74	762843	2591	197 - 313	5188				H0583: 1, H0030: 1, H0135: 1, L0773: 1 and S0136: 1.				
2582	HYAAD61	897736	2592	341 - 397	5189				H0583: 1				
2583	HYACC21	696654	2593	461 - 556	5190				AR060: 3, AR316: 2, AR089: 2 H0583: 1				
2584	HYBAP75	853561	2594	166 - 279	5191				AR060: 5, AR316: 4, AR089: 4 S0282: 10, H0594: 6, H0596: 5, H0592: 3, S0260: 3, H0595: 3, H0600: 2, H0041: 2, H0105: 2, S0388: 2, H0316: 2, H0598: 2, S0344: 2, S0390: 2, S0218: 1, H0411: 1, S0280: 1, H0590: 1, H0050: 1, H0553: 1, S0036: 1, H0529: 1, S0194: 1 and S0042: 1.				
2585	HYBAQ24	898367	2595	261 - 467	5192	Glu-32 to Arg-38, Val-46 to Val-61.			H0586: 1, H0036: 1, H0041: 1, H0271: 1, H0622: 1, H0488: 1, H0509: 1 and S0434: 1.				

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2586	HYBAW56	658736	2596	116 - 268	5193	Arg-21 to Lys-27.	AR089: 144, AR316: 101, AR060: 61 H0041: 1		
2587	HYBBD81	533784	2597	151 - 219	5194		H0041: 1		

[78] The first column in Table 1B provides the gene number in the application corresponding to the clone identifier. The second column in Table 1B provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1B. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods described elsewhere herein.

[79] The third column in Table 1B provides a unique "Contig ID" identification for each contig sequence. The fourth column provides the "SEQ ID NO:" identifier for each of the contig polynucleotide sequences disclosed in Table 1B. The fifth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1B, column 6, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.

[80] The sixth column in Table 1B provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 5. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.

[81] Column 7 in Table 1B lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-

Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1B. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[82] Column 8, in Table 1B, provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1B, which can routinely be combined with the information provided in Table 4 and used to determine the tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 8 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 8 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of <sup>33</sup>P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding

polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression.

[83] Column 9 in Table 1B provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[84] A modified version of the computer program BLASTN (Altshul, et al., J. Mol. Biol. 215:403-410 (1990), and Gish, and States, Nat. Genet. 3:266-272) (1993) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1B under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

[85] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM™ ("Online Mendelian Inheritance in Man"; McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine (Bethesda, MD) 2000; World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>). If the putative chromosomal location of a polynucleotide of the invention (Query sequence)

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was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 10, Table 1B, labelled "OMIM Disease Reference(s). Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

[86] Table 1C summarizes additional polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) contig nucleotide sequence identifiers (SEQ ID NO:X)), and genomic sequences (SEQ ID NO:B). The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEQ ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).

**TABLE 1C**

Clone ID No:Z	SEQ ID NO:X	CONTIG ID:	BAC ID: A	SEQ ID NO:B	EXON From-To
H2CBH91	12	826669	AF260012	5205	1-624 4141-4362 4976-5265 5433-5573 5783-5890 6096-6635 7710-8129 8177-10172
H2CBH91	12	826669	AF260012	5206	1-449 512-986
H2CBH91	12	826669	AF260012	5207	1-80 527-631 1970-2099 2509-2582 2740-2802 3491-3728 3976-4184 4306-4978 5841-6002 7317-8173
H2LBB09	14	658667	AC015863	5208	1-103 2561-2824 4532-4708 5840-7609
H2LBB09	15	830636	AC015863	5209	1-103 2561-2824 4532-4708 5840-7609
H2MAC63	16	610045	AC019122	5210	1-63 390-1660 3921-3948
H2MAC63	16	610045	AC019122	5211	1-331
H2MAC63	16	610045	AC019122	5212	1-450 539-708 713-835
H2MBA76	17	826161	AP001822	5213	1-69 608-1096 1251-2446
H2MBA76	17	826161	AC020997	5214	1-201 1064-1126 1665-2153 2308-3502
H2MBA76	17	826161	AP001822	5215	1-71 929-1051 1659-1798
H2MBA76	17	826161	AC020997	5216	1-1329
H2MBA76	17	826161	AC020997	5217	1-71 930-1052 1660-1799
H2MBF60	18	695714	AC015470	5218	1-470 850-1865
H2MBF60	18	695714	AC015470	5219	1-244
H6BSM88	19	609832	AL355520	5220	1-39 3561-3618 7841-7949

					10375-11270 11589-11678 15048-15690 16028-16134 18215-18476 20699-20733 23616-23861 30319-35764
H6BSM88	19	609832	AL355520	5221	1-386
H6BSM88	19	609832	AL355520	5222	1-437
H6EEA48	20	847111	AC011479	5223	1-252 298-434 597-678 805-867 1903-2229 2668-2872 3606-3709 4150-4555 4652-4816 4973-5096 5167-6102 6555-6585
H6EEA48	20	847111	AC011479	5224	1-246
H6EEU40	23	757048	AC026285	5225	1-414 440-1918
H6EEU40	23	757048	AC023920	5226	1-416 442-1920
H6EEU40	23	757048	AC026285	5227	1-1458 1729-1836
H6EEU40	23	757048	AC023920	5228	1-1459 1730-1837
H7TMB95	25	597427	AL133381	5229	1-491
H7TMB95	25	597427	AL133385	5230	1-491
HACAD42	27	634372	AC018512	5231	1-776
HACAD42	27	634372	AC022305	5232	1-878
HACAD42	27	634372	AC002518	5233	1-150
HACAD42	27	634372	AC016135	5234	1-845
HADAB60	33	745367	AC011498	5235	1-3168 3709-3896 4647-4876 5003-5294 5443-5552 5836-6190 6334-6407 7922-8433 9129-9255 9889-10202 10311-10385 10503-10664 12531-12600 12682-12801 15489-15696
HADAB60	33	745367	AC011498	5236	1-165 3986-4070 4146-4408
HADAB60	33	745367	AC011498	5237	1-385
HADAM31	34	604500	AC001084	5238	1-833
HADAM31	34	604500	AC008670	5239	1-833
HADAM31	34	604500	AC008670	5240	1-358
HADCL19	35	599065	AC027264	5241	1-147
HADCL19	35	599065	AL353663	5242	1-141



HADCL19	35	599065	AC023583	5243	1-183
HADCL19	35	599065	AC027584	5244	1-162
HADCL19	35	599065	AC023309	5245	1-193
HADCL19	35	599065	AC068682	5246	1-153
HADCL19	35	599065	AL356423	5247	1-203
HADCL19	35	599065	AC016142	5248	1-150
HADCL19	35	599065	AC023864	5249	1-142
HADCL19	35	599065	AC021466	5250	1-105
HADCL19	35	599065	AC000360	5251	1-142
HADCL19	35	599065	AC027584	5252	1-368
HADCL19	35	599065	AC023864	5253	1-1485 1590-4704
HADDC04	37	601695	AC025086	5254	1-2523
HADDC04	37	601695	AC036213	5255	1-2523
HADDC04	37	601695	AC025086	5256	1-186
HADDP23	38	847115	AL353606	5257	1-931
HADDP23	38	847115	AC022252	5258	1-931
HADDP23	38	847115	AL365360	5259	1-931
HADDR24	40	664477	AF047825	5260	1-1062
HADDR24	40	664477	AC005103	5261	1-1062
HADDR24	40	664477	AF047825	5262	1-124
HADDR24	40	664477	AF047825	5263	1-512
HADDR24	40	664477	AC005103	5264	1-512
HADDR24	40	664477	AC005103	5265	1-128
HADET62	41	607615	AL139187	5266	1-267 881-1219 3142-3948 5639-5823
HADET62	41	607615	AL139187	5267	1-355
HADEY22	43	704584	AC006159	5268	1-813 1374-1711 3195-3417 6590-6718 7485-7921 9403-9953 11546-12050 14701-15135 19748-20021 20944-21554 25746-26009 26183-26508 33951-36192
HADEY22	44	861628	AC006159	5269	1-813 1374-1711 3195-3417 6590-6718 7485-7921 9403-9953 11546-12050 14701-15135 19748-20021 20944-21554 25746-26009 26183-26508 33951-36192
HADFB84	45	668229	AC034117	5270	1-3119
HADFB84	45	668229	AC034117	5271	1-216
HADFD01	46	829979	AL139423	5272	1-1542
HADFD01	46	829979	AL139423	5273	1-856
HADFK11	48	637485	Z97353	5274	1-1044

HADFK11	48	637485	Z97353	5275	1-286
HADFT44	49	793100	AC010789	5276	1-67 205-268 557-1982
HADFT44	49	793100	AC016774	5277	1-67 205-268 557-1982
HADFT44	49	793100	AC010789	5278	1-302
HADFT44	49	793100	AC010789	5279	1-544
HADFT44	49	793100	AC016774	5280	1-544
HADFT44	49	793100	AC016774	5281	1-302
HADFW20	50	599066	AC009314	5282	1-227 1999-2922 2929-3376 3543-4652 5475-5580 5690-5858 8208-8577 10545-10753 11835-12027 13238-14161
HADFW20	50	599066	AC009314	5283	1-767
HADFW20	50	599066	AC009314	5284	1-473
HADFX10	51	741054	AF139813	5285	1-1204
HADFX10	51	741054	AC004228	5286	1-1204
HADFX10	51	741054	AC003025	5287	1-1204
HADFX10	51	741054	AF139813	5288	1-504
HADFX10	51	741054	AC004228	5289	1-332
HADFX10	51	741054	AC003025	5290	1-332
HADFY80	52	654831	AC016498	5291	1-33 3823-3948 4874-5669
HADFY80	52	654831	AC026740	5292	1-33 3772-3897 4823-5339
HADFY80	52	654831	AC016498	5293	1-451
HADFY80	52	654831	AC026740	5294	1-115 765-1186
HADMA77	54	783049	AC007944	5295	1-3350
HADMA77	54	783049	AC018656	5296	1-3349
HADMA77	54	783049	AC021874	5297	1-3351 4529-4959 6110-6438
HADMA77	54	783049	AC007944	5298	1-941
HADMA77	54	783049	AC018656	5299	1-432
HADMA77	54	783049	AC018656	5300	1-941
HADXA10	56	859777	AC012419	5301	1-2856
HADXA10	56	859777	AC068288	5302	1-2680
HADXA10	56	859777	AC012419	5303	1-2925
HADXA10	56	859777	AC068288	5304	1-400
HAFBL14	58	832502	AC011767	5305	1-2758
HAFBL14	58	832502	AC011767	5306	1-476
HAGAB83	60	823044	AC073299	5307	1-1820
HAGAB83	60	823044	AC073299	5308	1-311
HAGAE84	61	847117	AL109627	5309	1-1957
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